

Curriculum Vitae

Priv.-Doz. Dr. Matthias Klusch

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1. Personal Data

Name, Title: Matthias Klusch, Priv.-Doz. Dr. rer. nat.

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66121 Saarbrücken, Germany
Phone & Fax: +49-681-8317676 (AB)

Birth Date/Place: 19.04.1965 / Berlin, Germany

Nationality: German

Occupations: Principal Researcher and DFKI Research Fellow
German Research Center for Artificial Intelligence (DFKI) GmbH
in Saarbrücken, Germany.
Head of Research Team for Intelligent Information Systems (I2S).

Private Docent for Computer Science
Saarland University
Computer Science Department, MI Junior Faculty
Head of Research Group Intelligent Information Systems
in Saarbrücken, Germany.

Scientific Impact: $h = 42$, Citations 8808 ([google scholar](#))

2. Education

- July 2009 **Habilitation** (PD, Dr. habil.) in Computer Science from the University of the Saarland, Saarbrücken, Germany.
Thesis: *On Agent-Based Semantic Service Coordination*.
Commission: Profs. M. Backes, W. Decker, M. Fuchs, M. Hein, J. Siekmann (Mentor), P. Slusallek, H. Uszkoreit, W. Wahlster, G. Weikum (Chair)
- April 1997 **Ph.D.** (Doctorate, Dr. rer. nat.) in Computer Science from the Christian-Albrechts-University of Kiel, Kiel, Germany.
Thesis: *Cooperative Information Agents in the Internet*.
- 1992 **M.Sc.** (Diploma, Dipl.-Inform.) in Computer Science from the Christian-Albrechts-University of Kiel, Kiel, Germany.
Thesis: *Development of a Hybrid Neural System for the Classification of Stars*.
- 1987 **B.Sc.** in Computer Science from the Christian-Albrechts-University of Kiel, Kiel, Germany.
- 1985 – 1992 **Studies of Computer Science and Mathematics** at the Institute for Computer Science and Applied Mathematics of the Christian-Albrechts-University of Kiel, Kiel, Germany.
- 1984 - 1985 German Military Service (W15)
- 1984 A-Level General Certificate of Education (Abitur) from the Secondary School “Herder Gymnasium” in Rendsburg, Germany.
- 1971 – 1984 Visits to schools in Berlin, Lübeck and Rendsburg, Germany.

3. Academic and Professional Career

- Since 11/2020 **Principal Researcher**
German Research Center for Artificial Intelligence (DFKI).
Saarbrücken, Germany.
Head of Research Team Intelligent Information Systems (I2S).
- Since 1/2018 **Speaker of AI Chapter of the German Society for Informatics**
- Since 7/2009 **Private Docent of Computer Science (Privatdozent, PD)**
Saarland University,
Faculty for Mathematics and Informatics.
Saarbrücken, Germany.
- 4/2008 – 2/2014 **Adjunct Professor of Computer Science**
Swinburne University of Technology
Faculty of Information and Communication Technologies
Melbourne, Australia.
- Since 7/2003 **DFKI Research Fellow**
- 3/2000 – 3/2002 **Assistant Professor (Universiteits Docent, TUD)**
Vrije Universiteit Amsterdam
Faculty of Sciences, Department of Artificial Intelligence.
Amsterdam, The Netherlands.
- 4/1999 – 10/2020 **Senior Researcher**
German Research Center for Artificial Intelligence (DFKI).
Saarbrücken, Germany.
Head of Research Team Intelligent Information Systems (I2S)
Co-Head of Research Group Multiagent Systems (2004 – 2011)
Dpty Head of Research Group Multiagent Systems (1999 – 2004)
- 1/1998 – 12/1998 **Postdoctoral Research Fellow**
Carnegie Mellon University, School of Computer Science,
Robotics Institute. Pittsburgh, USA
- 4/1997 – 4/1999 **Assistant Professor (Wissenschaftlicher Assistent, C1)**
Chemnitz University of Technology, Department of Systems for Data
Management. Chemnitz, Germany
- 10/1992 – 4/1997 **Teaching and Research Assistant (Wissenschaftlicher Mitarbeiter)**
Christian-Albrechts-University of Kiel, Institute for Informatics and
Applied Mathematics, Department of Systems for Information
Management. Kiel, Germany

Research areas and application domains:

Since 1999, the I2S research team performs application-oriented research and development of intelligent information systems. Main focus is on the application of Artificial Intelligence (AI), Agent Technologies, Service-Oriented Computing, and Semantic Technologies for innovative means of intelligent service coordination and decision-making in smart information systems.

Research of the I2S team on intelligent service coordination addresses the challenges of scalable, flexible, situatively optimal and high-performance semantic discovery, composition planning, negotiation, and execution of services by intelligent agents in dynamic and distributed environments. Research of the I2S team on intelligent decision-making currently focuses on trustworthy, hybrid (neuro-explicit) AI methods that integrate machine learning, reasoning and automated planning for autonomous systems, and hybrid Quantum AI methods.

Applications. The research results of the I2S team are implemented in a wide range of free open-source and partly awarded tools and benchmarks for semantic service coordination and data analysis, as well as in prototypes of intelligent information systems for various application sectors. So far, these sectors are as follows.

- Pedestrian-safe navigation by autonomous cars
- Process optimisation in cloud manufacturing
- Machine condition monitoring and maintenance
- Adaptive business processes in smart retail environments
- Intelligent simulation of virtual production lines
- Medical emergency assistance services in health care
- Smart event management and social media
- Decentralized power regulation in smart micro-grids
- Agricultural production planning and logistics

Selected system prototypes in these sectors were demonstrated at the CEBIT fair, the Hannover Industry fair (HIM), and the international Consumer Electronics Show (CES).

Scientific awards:

- 2013 **2nd Best Paper Award** (with I. Zinnikus et al.) of 9th IEEE Intern. Conference on Collaborative Computing (CollaborateCom)
- 2011 **Best Paper Award** (with J. Richter, R. Kowalczyk) of 9th German Conference on Multiagent System Technologies
- 2008 **Finalist of the ACM SIGART 2008 Award for Excellence in Autonomous Agents Research**
- 2006 **Best Paper Award Finalist** (with K. Sycara, B. Fries) of 5th Intern. Conference on Autonomous Agents and Multi-Agent Systems
- 2005 **Best Paper Award** (with Bastian Blankenburg) of the 3rd German Conference on Multiagent System Technologies
- 2003 **DFKI Research Fellow**
Awarded by the DFKI “in recognition of excellent research and services for the DFKI”

Memberships of university faculties and scientific advisory boards:

Since 2008, I am **member of the junior faculty of Mathematics and Informatics (MI) of the Saarland University** in the position of a private docent for computer science and research group leader for intelligent information systems.

From 2008 – 2014, I have been **member of the ICT faculty of the Swinburne University of Technology** in Melbourne (Australia) in the position of an adjunct full professor of computer science.

Since 2010, I am **member of the international scientific advisory board of the Centre for Intelligent Information Technologies (CETINIA)** at the Universidad Rey Juan Carlos in Madrid (Spain).

Member of professional associations:

1. German Society for Informatics - Gesellschaft für Informatik (GI) e.V.
Member of GI Special Interest Groups: Künstliche Intelligenz (AI)
2. IEEE Computer Society
3. International Society of Applied Intelligence (ISAI)

4. Research Visits

3/2011 – 4/2011,
4/2009 – 5/2009

Swinburne University of Technology, Melbourne, Australia.

Invited 2-months visits in my position as adjunct professor at the Swinburne Faculty of Information and Communication Technologies, Centre for Complex Software Systems and Services (CS3). Joint work with professor Ryszard Kowalczyk and his group on Intelligent Agent Technologies. Research on topics of agent-based high-performance semantic service selection and automated negotiation mechanisms with applications to smart grid services infrastructures and the 3D-Internet. PhD student supervision, Lectures on relevant topics.

3/2000 - 3/2002

Vrije Universiteit Amsterdam, Amsterdam, The Netherlands.

2-years contracted employment in the position of a part-time assistant professor (TUD) of the faculty of sciences. Lecturing and joint research in the domain of cooperative information agents and systems at the department of Artificial Intelligence headed by professor Jan Treur.

1/1998 - 12/1998

Carnegie Mellon University, Pittsburgh, USA.

1-year contracted employment in the position of a visiting research scientist / postdoctoral research fellow of the Robotics Institute (CMU staff member) for working in the Intelligent Software Agents Group headed by professor Katia Sycara. Employment grant of CMU exchange program P-1-1292. Joint research on intelligent agent-based service mediation in the Internet.

5. Research Coordination

Coordination of research groups:

- Since 1999 Research Team Intelligent Information Systems (Head)
 at DFKI and Saarland University
 <http://www.dfki.de/~klusch/i2s/>
- 1998 - 2003 European Special Interest Group on Intelligent Information Agents as part
 of the European Network of Excellence for Agent-Based Computing
 AgentLink (Coordinator)
 <http://www.agentlink.org/activities/sigs/sig3.html>
- 1999 - 2011 Research Group Multiagent Systems (Deputy Head / Co-Head)
- 2001 - 2003 Working Groups of the European Coordinated Action Agentcities.NET on
 various topics of agent technology (Coordinator)

Coordination of research projects at DFKI:

I was/am involved in the coordination of funded research projects at DFKI (see Sect. 6):

1. QAICO (BMBF, 2021 – 2023, Quantum AI for coordination and cooperation)
2. WELCOME (EC H2020 SC6, 2020 - 2023, Intelligent Conversation Agent-Based Services for Reception, Orientation and Integration of Third-Country Nationals in the EU)
3. CREMA (2014 – 2017, EC H2020 FoF; Intelligent cloud-based manufacturing)
4. ICM-Hydraulic (2013-2015, HYDAC GmbH, ZeMA GmbH; ICM-Wind succ.)
5. ICM-Wind (2012, ZeMA GmbH, HYDAC GmbH; Hybrid semantic sensor data analysis for fluid condition monitoring in wind turbines)
6. SocialSensor (2011 – 2014, EC FP7 IP; Semantic Social Web), WP3 Leader.
7. Collaborate3D (2011-2014, BMB+F; Collaborative 3D simulation of realities)
8. EMERGENT Software Cluster (BMB+F, 2010 – 2015), Task Q1.G2.3 Leader
9. ISReal (2009-2012, BMB+F; Intelligent 3D simulation of realities)
10. MODEST (2008, BMB+F; Model-driven agents for semantic Web services)
11. AT (2008–2012, EC FP7 COST; Agreement Technologies)
12. SCALLOPS (2004–2007, BMB+F; Secure agent-based pervasive computing)
13. SEMAS (2001–2003, BMB+F; Secure Multi-Agent Systems)
14. AGRICOLA, AGRICOLA-2 (2001 – 2003, 2006, Saarland government; CASA succ.)
15. CASA (2000–2002, Saarland government; Agent-Based Agriculture and Forestry App)
16. CASCOM (2003–2007, EC FP6 STREP; Mobile Semantic Web Services)
17. Agentcities.RTD (2001–2003, EC FP5 STREP; Agent-Based Services)
18. AgentCities.NET (2001–2003, EC FP5, CA)
19. AgentLink I – III (1998–2003; EC FP5 and FP6 CA; Agent-Based Computing)
20. AITelcom (2000–2001, Alcatel AG, Germany; AI for Telecom Apps)
21. SAP-AEP (1999–2000, SAP Retail Solutions, Germany; Agents for Dynamic Pricing)

6. Research Fund Raising

I have been involved in the acquisition of research grants for projects, PhD student scholarships, and sponsorships of scientific events funded by different sources as follows. The project funding I have acquired independently (3.8 MEUR) and collaboratively for DFKI amounts to 13.65 MEUR with project volume of 43.1 MEUR in total.

(1) European Research Projects

Project volume: 21,7 MEUR

Project funding for DFKI: 2,74 MEUR

1. **WELCOME** – Intelligent Conversation Agent-Based Services for Reception, Management and Integration of Third-Country Nationals in the EU

Funding: 4.3 MEUR

Source: EC H2020 SC6 MIGRATION (IA)

DFKI share: 0.4 MEUR

Duration: 2/2020 – 1/2023

Coordination: UPF (Spain)

Partners: 15 (UPF, CERTH, DFKI, CUNI, BUT, SHU, EVERIS, NURO, METODO, MR, KEMEA, DTASF, CARITAS, PRAKSIS)

Objectives: <https://welcome-h2020.eu/>

2. **CREMA** – Cloud-Based Rapid Elastic Manufacturing

Funding: 4.7 MEUR

Source: EC H2020 FoF (RIA)

DFKI share: 665 KEUR

Duration: 1/2014 – 12/2017

Coordination: ASCORA GmbH (Germany)

Partners: 10 (ASCORA, TU Vienna, DFKI, Tenneco, FAGOR, GOIZPER, TANet, UbiSense, ICE, DotnetIT)

Objectives: <http://www.crema-project.eu/>

While the theoretical foundations for Cloud manufacturing are manifest there are no proven tools and technologies exist in the market - CREMA aims to change this fact by providing Cloud-based Rapid Elastic Manufacturing based on the XaaS and Cloud model making use of intelligent service coordination by innovative use of AI and semantic technologies.

3. **SocialSensor** – Sensing User-Generated Input for Improved Media Discovery and Experience.

Funding: 6.1 MEUR

Source: EC IST FP7 (IP)

DFKI share: 634 KEUR

Duration: 10/2011 – 10/2014

Coordination: CERTH (Greece)

Partners: 11 including Yahoo!, DW, Alcatel-Lucent Bell, IBM

DFKI personnel: Klusch (PMB Member, WP3 Leader); Kapahnke; Hoffmann; Keller

Objectives: Development and new framework for enabling real-time multimedia indexing and search in the Social Web. Mining and aggregating user inputs and content over multiple social networking sites. Social Indexing will incorporate information about the structure and activity of the users' social network directly into the multimedia analysis and search process. Enhancement of multimedia consumption experience by developing novel user-centric media visualization and browsing paradigms: Analysis of dynamic and massive user contributions in order to extract unbiased trending topics and events, and the usage of social connections for improved recommendations.

4. **AT** - Agreement Technologies

Funding: 0.5 MEUR

Source: EC COST Action IC0801

DFKI share: N/A (PMB travel cost reimbursement by EC directly)

Duration: 8/2008 – 6/2012

Coordination: Universidad Rey Juan Carlos (Spain); Partners: Open scheme.

DFKI personnel: Klusch (PMB Member); Keller

Objectives: http://www.cost.esf.org/index.php?id=110&action_number=IC0801

5. **CASCOM** - Context-Aware Business Application Service Coordination in Mobile Computing Environments

Funding: 2.7 MEUR

Source: EC IST FP6 (STREP)

DFKI share: 627 KEUR

Duration: 9/2004 – 9/2007, cost neutral prolongation to 12/2007.

Coordination: DFKI

DFKI personnel: Klusch (Scientific Co-ordinator, PMB Member); Gerber; Keller

Partners: DFKI, TeliaSonera, ADETTI, EMA Group, URJC, UBasel, EPFL, FrameTech

Objectives: To implement, validate, and trial a value-added supportive infrastructure for Semantic Web based business application services across mobile and fixed networks. <http://www.ist-cascom.org>

6. **Agentcities.RTD**

Funding: 2.47 MEUR

Source: EC IST FP5 (STREP)

DFKI share: 250 KEUR

Duration: 6/2001 – 6/2003

Coordination: Motorola France, Partners: 15

DFKI personnel: Klusch (PMB Member); Drugan

Objectives: To create an on-line, distributed test bed to explore and validate the potential of agent technology for future dynamic service environments.

<http://www.agentcities.org/EURTD/>

7. **AgentCities.NET**

Funding: 868 KEUR

Source: EC IST FP5 Network of Excellence; Open Partnership Scheme

DFKI share: 166 KEUR

Duration: 11/2001 – 10/2003

Coordination: DFKI

Partners: 4 (Motorola, British Telecom, EPFL, UPC) for network management

DFKI personnel: Klusch (WP6 Leader; PMB Member); Girenko (co-ordinator); Keller

Objectives: To create an open dynamic service environment based on Agent technology and make it accessible to potential users. Take-up action; European Network of Excellence. <http://www.agentcities.org/EUNET/>

(2) **National Research Projects**

Project volume: 20.45 MEUR

Project funding for DFKI: 10.42 MEUR

1. **QAICO** – Quantum Artificial Intelligence for Coordination and Cooperation [Teilvorhaben im Verbundprojekt QAI2 - Quantum AI for Automotive Industries]

Funding: 0.52 MEUR [DFKI]

Source: BMB+F

Duration: 4/2021 – 3/2023

Objective: basic research and development of novel hybrid quantum-classical AI (Quantum AI) algorithms for selected, computationally hard AI problems with applications in the automotive industry including optimal production planning and collision-free navigation of self-driving cars. The extent to which the adaptation of selected classical AI methods for quantum computing using suitable existing and possibly further or newly developed quantum algorithms (quantum circuits) is theoretically feasible and beneficial shall be investigated in depth. Apart from

simulation on a classical computer, the partial execution of developed hybrid QAI algorithms on a real quantum computer available for this purpose by our partners is aimed for.

Partners in QAI2: FZ Jülich (Coordinator), DFKI, BMW, Mercedes, Volkswagen, Bosch

2. **REACT** – Modelling, Learning and Simulation Environment for Pedestrian Behavior in Critical Traffic Situations

Funding: 1.45 MEUR

Source: BMB+F [DFKI Korridor]

Duration: 10/2017 – 10/2020; Extension (CrossCDR) to 4/2023:

Objective: Systematic approach for developing Intelligent Simulated Realities based on Machine Learning (especially Deep Learning and (Deep) Reinforcement Learning) of low-dimensional, sub-models, combining and configuring them into complete high-dimensional models, and (semi-)automatically identifying and covering the range of critical situations through learning. From these Simulated Realities we can generate new virtual sensor input to be used for training the target systems how to handle these critical situations.

3. **Inversiv** – Integrated Verification, Simulation and Visualization for Industrial Applications

Funding: 1.45 MEUR

Source: BMB+F [DFKI Korridor]

Duration: 11/2014 – 11/2017

Objective: Extension of C3D framework with focus on run-time and dual reality based functional simulation and safety verification of manufacturing systems virtually engineered in 3D environments.

4. **Collaborate3D** – Scalable Intelligent Support and Reliability for Collaboration in the Future 3D Internet.

Funding: 1.45 MEUR

Source: BMB+F [DFKI Korridor]

Duration: 10/2011 – 10/2014

Objective: Research and development of a coherent framework for scalable intelligent support of and reliability for collaboration in the future 3D Internet. Integrated proof-of concept demonstrations focus on selected scenarios of collaborative 3D engineering in industry and science such as collaborative virtual 3D product and bio-molecular design.

5. **Spitzencluster EMERGENT** – Emergent Software for Digital Enterprises in the Future Internet

Funding: 12.3 MEUR

DFKI-ASR share: 240 KEUR (aus DFKI share 1.7 MEUR)

Source: BMB+F

Duration: 7/2010 – 2015

DFKI-ASR personnel: Klusch (Task AP2.3 Lead), Warwas, Zinnikus

Objective: Adaptive model-driven business service coordination by intelligent agents

<http://www.software-cluster.org/>

6. **ISReal** – Intelligently Simulated Reality

Funding: 1.45 MEUR

Source: BMB+F [DFKI Korridor]

Duration: 1/2009 – 12/2011

DFKI personnel: Klusch, Fischer, Hoffman, Demme, Stephan (TC); 4 researchers, additional MSc students

Objective: www.dfki.de/~klusch/isreal

7. **MODEST** - Model-Driven Agents for Semantic Web Services

Funding: 245 KEUR

Source: BMB+F [DFKI Korridor]

Duration: 1/2008 – 12/2008

Cooperation Partners: Saarstahl AG, TU Swinburne, URJC

DFKI personnel: Klusch, Fischer (PM); 1 PhD student, additional MSc students

Objective: www.dfki.de/~klusch/modest

8. **SCALLOPS** - Secure Agent Based Pervasive Computing

Funding: 1.45 MEUR

Source: BMB+F [DFKI Korridor]

Duration: 3/2004 – 12/2006; Prolongations: 1/2007 – 6/2007, 7/2007 – 12/2007

DFKI personnel: Klusch, Hutter (PM); 2 PhD students; additional MSc students

Objectives: <http://www.dfki.de/scallops> To develop a coherent, methodological framework for the design and implementation of secure agent-based pervasive computing applications. Basic research is on innovative means for flexible agent-coordinated semantic Web service discovery and composition, and effective data and service privacy enforcement in open, large scale pervasive computing environments.

9. **SEMAS** - Secure Multi-Agent Systems

Funding: 700 KEUR

Source: BMB+F [DFKI Korridor]

Duration: 1/2001 – 12/2003

DFKI personnel: Fischer, Klusch, Hutter (PM); 2 PhD students

Objectives: To provide a specific methodology for the design and implementation of secure mobile multi-agent systems particularly in the domain of virtual marketplaces.

(3) **Regional Research Projects**

Project volume: 0,59 MEUR

Project funding for DFKI: 0,59 MEUR

1. **AGRICOLA-2**

Funding (DFKI share): 80 KEUR

Source: Saarland Ministry for Environment (MfU)

Duration: 1/2006 – 7/2007

Coordination: DFKI

Partners: Maschinenring des Saarlandes e.V.

DFKI Personnel: Klusch (PM), 1 Software Engineer, Advisor (MfU)

Objective: Realisation and limited field test of the prototyped AGRICOLA system.

2. **AGRICOLA**

Funding (DFKI share): 245 KEUR

Source: Saarland Ministry for Environment (MfU)

Duration: 1/2002 – 3/2003

Coordination: DFKI

Partners: Maschinenring des Saarlandes e.V.

DFKI Personnel: Klusch (PM), 1 PhD student; additional MSc students

Objective: Development and prototypical implementation of an agent based system AGRICOLA for dynamic resource allocation for cereal harvesting in the Saarland region. This includes the use of mobile computing and communication devices.

3. **CASA**

Funding (DFKI share): 245 KEUR

Source: Saarland Ministry of Environment (MfU); Saarland Ministry of Economics.

Duration: 1/2000 – 12/2002

Coordination: DFKI

Partners: TrendPlus AG, Deutsche Telekom AG

DFKI Personnel: Klusch (PM), 1 PhD student, Advisor (MfU); additional MSc students
Objective: Development and protoypical implementation of an agent based system for integrated mobile services for dynamic timber production planning and trading.

KAMIL – Associated Project to CASA 1.7.-31.12.1999, DFKI share: 20 KEUR

(4) Industry Projects

Project funding for DFKI: 432.5 KEUR

1. ICM-Hydraulic

Intelligent Condition Monitoring of Hydraulic Machines. Contribution: Hybrid Semantic and Statistic Sensor Data Analysis for Fluid Condition Monitoring; Experimental analysis and development of system prototype.

Duration: 15.5.2013 – 30.3.2015

HYDAC Filter Systems GmbH, Germany; collaboration with ZeMA GmbH, Germany.

2. ICM-Wind

Contribution: Semantic Sensor Data Analysis for Fluid Condition Monitoring in Wind Turbines; Experimental analysis and development of system prototype.

Duration: 15.2.-31.8.2012

ZeMA GmbH; HYDAC Filter Systems GmbH, Germany

3. AITelcom

AI Technologies for Telecommunication Applications; Study.

Duration: 1.11.- 31.12.2000

Im Auftrag von Alcatel AG Stuttgart, Germany

4. SAP-AEP

Agents for E-Business and Dynamic Pricing for SAP/R3; Study and Software.

Duration: 1.10.1999 - 31.12.2000

Im Auftrag von SAP AG / SAP Retail Solutions, Germany

(5) PhD Scholarships

- 2003 – 2007: Ph.D. Scholarship funded by the Brazilian student exchange office CAPES for conducting doctoral studies at the University of the Saarland and DFKI; scholarship holder: Josenildo C. Da Silva; ca. 48 KEUR
- 2004 – 2008: Ph.D. Scholarship funded by the Brazilian student exchange office CAPES for conducting doctoral studies at the University of the Saarland and DFKI; scholarship holder: Helena P. Nunes (2004 – 2005); ca. 48 KEUR

(6) Sponsorships of scientific events

In my role as co-/chair of scientific conferences, workshops, and training events, I have also raised funds from different sources for sponsoring best paper awards, system awards, student travel grants, and others. Selected sponsors from industry were HYDAC Filter Systems GmbH, Whitestein Technologies, TeliaSonera A/B, Siemens AG, Nokia, Deutsche Telekom AG, Elsevier Science, IBM Research Israel, Swiss Life AG, AutoDesk Inc., Daimler-Chrysler AG, National e-Science Institute Edinburgh, NASA Goddard Space Flight Center. Selected sponsoring scientific organisations were IFMAS International Foundation for Multi-Agent Systems, German Computer Society (GI), AEPIA Spanish Association for Artificial Intelligence, AISB (UK), and IEEE computer society standards committee FIPA.

7. Editorial Board Memberships

I am editorial board member or associate/area editor of the following scientific journals.

1. International Journal of Web Semantics: Science, Services, and Agents on the Web (**WebSem**), Elsevier Science. Since 2007. (Area editor)
<https://www.journals.elsevier.com/journal-of-web-semantics/editorial-board>
2. International Journal of Intelligent Information Systems (**IJIS**), Springer. Since 2018.
<https://www.springer.com/computer/database+management+&+information+retrieval/journal/10844/PSE?detailsPage=editorialBoard>
3. International Journal of Cooperative Information Systems (**IJCIS**), World Scientific. Since 2002.
<https://www.worldscientific.com/page/ijcis/editorial-board>
4. International Journal of Web Intelligence (**WI**, formerly WIAS Web Intelligence and Agent Systems), IOS Press. Since 2003. <https://www.iospress.nl/journal/web-intelligence-and-agent-systems/>
5. International Journal of Applied Decision Sciences (**ADS**), InderScience. Since 2008. <http://www.inderscience.com/browse/index.php?journalID=283>

Past editorial board memberships:

1. International Journal of Semantic Web and Information Systems (**SWIS**), IGI Global. 2007 – 2018. <http://www.ijswis.org/>
2. International Journal of Web Intelligence and Agent Systems (**WIAS**), IOS Press. 2003 - 2015. <http://www.iospress.nl/loadtop/load.php?isbn=15701263>
3. International Journal of Knowledge and Information Systems (**KAIS**), Springer; 2001 - 2009. <http://www.cs.uvm.edu/~kais/>
4. International Electronic Transactions on Artificial Intelligence (**ETAI**), Area: Semantic Web, 2000 – 2001. <http://www.ida.liu.se/ext/etai/>

8. Project Reviewing

I have been invited by the following national science research funding agencies to review project proposals:

- Natural Sciences and Engineering Research Council of Canada (**NSERC**), Canada. Since 2007.
- Chinese Research Grants Council (**RGC**) Hongkong, China. Since 2004.
- Italian Ministry of Education and Research - Italian Ministero dell'Università e della Ricerca (**MIUR**), Italy. Since 2004.
- Netherlands Organization for Scientific Research (**NWO**), The Netherlands. Since 2003.
- Switzerland National Science Fund - Schweizerischer Nationalfonds zur Förderung der wissenschaftlichen Forschung (**FNSNF**), Switzerland. Since 2003.
- Austrian National Science Fund - Österreichischer Wissenschaftsfond (**FWF**), Austria. Since 2002.

9. Organisation of Conferences

I have been / am involved in the organisation of scientific events and series as follows.

9.1 Conference Series

1. Steering committee member of **IEEE/ACM International Conference on Web Intelligence (WI)**, since 2015
2. Co-founder, member and spokesman of the steering committee of the **German conference series on Multiagent System Technologies (MATES)**, from 2003 to 2017. <http://www.dfki.de/~klusch/mates-series/>

Past organisation of scientific event series:

1. Founder and coordinator of the **international Semantic Service Selection (S3) Contest**, from 2007 to 2013. <http://www.dfki.de/~klusch/s3/>
2. Founder and general chair of the **international workshop series on Cooperative Information Agents (CIA)** from 1997 to 2008. This series of 12 workshops has been ranked 55 from 620 conferences in Artificial Intelligence (by www.cs-conference-ranking.org, as of July 24, 2008). <http://www.dfki.de/~klusch/IWS-CIA-home.html>

9.2 Conferences and Workshops

Co-chairing of conferences:

- Co-Chair of IEEE/ACM International Conference on Web Intelligence (WI), Omaha, USA, 2016
- Co-Chair of 14th German Conference on Multiagent System Technologies (MATES), Klagenfurt, Austria, 2016
- Track Chair of 11th Extended Semantic Web Conference (ESWC), Heraklion, Greece; ESWC Track on Services, Processes and Cloud Computing; 2014.
- Co-Chair of the 11th German Conference on Multiagent System Technologies (MATES), Koblenz, Germany, 2013.
- Track Chair of 9th Extended Semantic Web Conference (ESWC), Heraklion, Greece; ESWC Track on Services, Processes and Cloud Computing; 2012.

- Program Vice-Chair of the 11th IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Lyon, France, 2011.
- Program Committee Vice Chair of the 6th European Semantic Web Conference (ESWC), Heraklion, Greece, 2009.
- Program Co-Chair of the IEEE International Conference on Web Intelligence (WI), Sydney, Australia, 2008.
- Program Vice Chair of the 6th International Semantic Web Conference (ISWC), Busan, Korea, 2007.
- Program Co-Chair of the IEEE International Conference on Intelligent Agent Technology (IAT), Silicon Valley, USA, 2007.
- Chair of the 5th German Conference on Multiagent System Technologies (MATES), 2007.
- Program Co-Chair of the IEEE International Conference on Intelligent Agent Technology (IAT), Hong Kong, China, 2006.
- Vice Program Committee Chair of the 4th IEEE/ACM Conference on Web Intelligence (WI), Compiègne, France, 2005.
- Chair of the 3rd German Conference on Multiagent System Technologies (MATES), Koblenz, 2005.
- Vice Program Committee Chair of the 4th International IEEE Conference on Intelligent Agent Technology (IAT 2004), October, China, 2004.
- Program Co-Chair of the 3rd International IEEE Conference on Intelligent Agent Technology (IAT 2003), October, Canada, 2003.
- Program Co-Chair of the 1st German Conference on Multiagent System Technologies (MATES), Erfurt, Germany, September 22 - 25, 2003.

Other committed roles of scientific event organisation:

- Co-Chair of UPLINX Machine Learning School (MLS), Saarbrücken, Germany, 2019.
- Sponsorship Co-Chair of the 15th International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), 2012.

- Publicity Chair of the 4th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2005), 2005.

Co-chairing of workshops / schools:

- Co-Chair of UPLINX Machine Learning School (MLS), Saarbrücken, Germany, October 9 - 11, 2019.
- Co-Chair of UPLINX Machine Learning in Industry (MLI) Workshop, Kaiserslautern, Germany, October 21-22, 2019.
- Chair of the International Workshop on Cooperative Information Agents (CIA) from 1997 to 2008 (twelve annual workshops):
 - 1997, Kiel, Germany; 1998, Paris, France (@ Agents' World conference); 1999, Uppsala, Sweden; 2000, Boston, USA (@ ICMAS 2000 conference); 2001, Modena, Italy; 2002, Madrid, Spain; 2003, Helsinki, Finland; 2004, Erfurt, Germany (@ Net.Object Days 2004 multiconference); 2005, Koblenz, Germany (@ MATES / KI 2005 conference); 2006, Edinburgh, UK; 2007, Delft, The Netherlands; 2008, Prague, Czech Republic.
- Co-Chair of the 6th International Workshop on Service-Oriented Computing: Agents, Semantics, and Engineering (SOCASE) at the AAMAS 2008 Conference, Portugal, 2008.
- Co-Chair of the 1st International Joint Workshop on Service Matchmaking and Resource Retrieval in the Semantic Web (SMR2), 2007.
- Co-Chair of the European 3rd Agentcities Information Days, Barcelona, Spain, February 6-8, 2003.
- Co-Chair of the international AAI Workshop on Coalition Formation in Dynamic Multiagent Environments, July 28 - 29, USA, 2002.
- Local Co-Chair of the 2nd European Summer School on Agent-Based Systems (EASSS 2000), Saarbrücken, August 14 – 18, 2000.
- Co-Chair of the International Workshop on Knowledge Representation Meets Databases (KRDB) at the ECAI 2000 Conference in Berlin, August 2000.
- Co-Chair of the 1st German Joint Workshop on DAI, Databases and Information Retrieval (VDI), Chemnitz, April 1998.

10. Program Committee Memberships

My past and current memberships of program committees (**304**) of conferences (210) and workshops (94) are listed in inverted chronological order and sorted by major research areas in the following.

10.1 Conferences

Semantic Technologies

1. 23rd Extended Semantic Web Conference (**ESWC**), 2024
2. 22nd Extended Semantic Web Conference (**ESWC**), 2023
3. 20th International Semantic Web Conference (**ISWC**), virtual, 2021
4. 18th Extended Semantic Web Conference (**ESWC**), virtual, 2021
5. 19th International Semantic Web Conference (**ISWC**), virtual, 2020
6. 17th Extended Semantic Web Conference (**ESWC**), virtual, 2020
7. 18th International Semantic Web Conference (**ISWC**), Auckland, NZ, 2019
8. 16th Extended Semantic Web Conference (**ESWC**), Portoroz, Slovenia, 2019
9. 17th International Semantic Web Conference (**ISWC**), Monterey (CA), USA, 2018
10. 16th International Semantic Web Conference (**ISWC**), Vienna, Austria, 2017
11. 14th Extended Semantic Web Conference (**ESWC**), Portoroz, Slovenia, 2017
12. 15th International Semantic Web Conference (**ISWC**), Kobe, Japan, 2016
13. 13th Extended Semantic Web Conference (**ESWC**), Crete, Greece, 2016
14. 14th International Semantic Web Conference (**ISWC**), USA, 2015
15. 12th Extended Semantic Web Conference (**ESWC**), Crete, Greece, 2015
16. 13th International Semantic Web Conference (**ISWC**), Italy, 2014
17. 4th Joint International Semantic Technology Conference (**JIST**), Thailand, 2014.
18. 11th Extended Semantic Web Conference (**ESWC**), Crete, Greece, 2014;
Senior Program Committee Member
19. 12th International Semantic Web Conference (**ISWC**), Sydney, Australia, 2013
20. 10th Extended Semantic Web Conference (**ESWC**), Montpellier, France, 2013
21. 11th International Semantic Web Conference (**ISWC**), Boston, USA, 2012
22. 11th International Conference on Ontologies, Databases and Applications of Semantics (**ODBASE**), Rome, Italy, 2012
23. 8th Extended Semantic Web Conference (**ESWC**), Heraklion, Greece, 2012
24. 10th International Semantic Web Conference (**ISWC**), Bonn, Germany, 2011
25. 10th Intl. Conference on Ontologies, DataBases, and Applications of Semantics (**ODBASE**), Crete, Greece, 2011.
26. 4th Asian Semantic Web Conference (**ASWC**), Shanghai, China, 2009
27. 8th International Semantic Web Conference (**ISWC**), Washington DC, USA, 2009
28. 1st International Conference on Semantic Systems (**i-Semantics**), Graz, Austria, 2009
29. 7th International Semantic Web Conference (**ISWC**), Karlsruhe, Germany, 2008
30. 3rd Asian Semantic Web Conference (**ASWC**), Thailand, 2008.

31. 5th European Conference on Semantic Web Services (**ESWC**), Tenerife, Spain, 2008.
32. 4th European Conference on Semantic Web Services (**ESWC**), Innsbruck, Austria, 2007
33. 5th International Semantic Web Conference (**ISWC**), Athens, USA, 2006.
34. 3rd European Semantic Web Conference (**ESWC**), Budva, Montenegro, 2006.
35. 4th International. Semantic Web Conference (**ISWC**), Galway, Ireland, 2005.
36. 1st International IFIP Conference on Industrial Applications of the Semantic Web (**IASW**), Jyväskylä, Finland, August 2005.
37. 3rd International Semantic Web Conference (**ISWC**), Hiroshima, Japan, November 2004
38. 3rd Intl. Conference on Ontologies, DataBases, and Applications of Semantics (**ODBASE**), Cyprus, 2004.
39. 2nd Intl. Semantic Web Conference (**ISWC**), Sundial Resort, Sanibel Island, Florida, USA, 2003

Agent-Based Computing

40. 17th International Conference on Agents and Artificial Intelligence (**ICAART**), virtual, 2024
41. 21st International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), 2023
42. 16th International Conference on Agents and Artificial Intelligence (**ICAART**), virtual, 2023
43. 15th International Conference on Agents and Artificial Intelligence (**ICAART**), virtual, 2022
44. 20th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), 2022
45. 14th International Conference on Agents and Artificial Intelligence (**ICAART**), virtual, 2021
46. 19th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2021
47. 13th International Conference on Agents and Artificial Intelligence (**ICAART**), virtual, 2020
48. 18th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2020
49. 12th International Conference on Agents and Artificial Intelligence (**ICAART**), Valetta, Malta, 2020
50. 4th IEEE International Conference on Agents (**ICA**), Jinan, China, 2019
51. 17th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Avila, Spain, 2019
52. 11th International Conference on Agents and Artificial Intelligence (**ICAART**), Prague, Czech Republic, 2019
53. 9th International Conference on Industrial Applications of Holonic and Multi-Agent Systems (**HoloMAS**), Linz, Austria, 2019

54. 3rd IEEE International Conference on Agents (**ICA**), Singapore, 2018
55. 10th International Conference on Agents and Artificial Intelligence (**ICAART**), Funchal, Portugal, 2018
56. 16th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Toledo, Spain, 2018
57. 8th International Conference on Industrial Applications of Holonic and Multi-Agent Systems (**HoloMAS**), Lyon, France, 2017
58. 2nd IEEE International Conference on Agents (**ICA**), Beijing, China, 2017
59. 15th German Conference on Multiagent System Technologies (**MATES**), Leipzig, Germany, 2017
60. 15th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Porto, Portugal, 2017
61. 9th International Conference on Agents and Artificial Intelligence (**ICAART**), Porto, Portugal, 2017
62. 15th International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), Singapore, 2016; *Senior Program Committee Member*
63. 14th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Sevilla, Spain, 2016
64. 1st IEEE International Conference on Agents (**ICA**), Matsue, Japan, 2016
65. 8th International Conference on Agents and Artificial Intelligence (**ICAART**), Rome, Italy, 2016
66. 2nd (13th) European Conference on Multi-Agent Systems (**EUMAS**), Athens, Greece, 2015
67. 15th IEEE/ACM International Conference on Intelligent Agent Technology (**IAT**), Singapore, 2015
68. 7th International Conference on Agents and Artificial Intelligence (**ICAART**), Lisbon, Portugal, 2015
69. 13th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2015
70. 12th German Conference on Multiagent System Technologies (**MATES**), Stuttgart, Germany, 2014
71. 13th International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), Paris, France, 2014
72. 12th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2014
73. 6th International Conference on Agents and Artificial Intelligence (**ICAART**), Angers, France, 2014
74. 14th IEEE/ACM International Conference on Intelligent Agent Technology (**IAT**), Warsaw, Poland, 2014
75. 11th German Conference on Multiagent System Technologies (**MATES**), Koblenz, Germany, 2013.
76. 13th IEEE/ACM International Conference on Intelligent Agent Technology (**IAT**), Atlanta, USA, 2013

77. 12th International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), Saint Paul, USA, 2013
78. 11th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2013
79. 5th International Conference on Agents and Artificial Intelligence (**ICAART**), Barcelona, Spain, 2013
80. 12th IEEE/ACM International Conference on Intelligent Agent Technology (**IAT**), Macau, China, 2012
81. 10th German Conference on Multiagent System Technologies (**MATES**), Trier, Germany, 2012
82. 11th International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), Valencia, Spain, 2012
83. 10th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2012
84. 4th International Conference on Agents and Artificial Intelligence (**ICAART**), Vilamoura, Portugal, 2012
85. 9th German Conference on Multiagent System Technologies (**MATES**), Berlin, Germany, September, 2011
86. 9th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2011
87. 10th International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), Taipei, Taiwan, 2010
88. 3rd International Conference on Agents and Artificial Intelligence (**ICAART**), Rome, Italy, 2011
89. 2nd International Conference on Agents and Artificial Intelligence (**ICAART**), Valencia, Spain, 2010
90. 9th International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), Toronto, Canada, 2010
91. 8th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2010
92. 7th International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2009
93. 8th International Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Budapest, Hungary, 2009
94. 7th International Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Estoril, Portugal, 2008
95. 8th International Conference on Self-Organization and Autonomic Systems in Computing and Communications (**SOAS**), Leipzig, Germany, 2007.
96. 6th International Joint Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Hawaii, USA, 2007. **Senior Program Committee Member.**
97. 7th Intl Conference on Self-Organization and Autonomic Systems in Computing and Communications (**SOAS**), Erfurt, Germany, 2006.
98. 5th Intl. Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Hakodate, Japan, May 2006.

99. 4th German Conference on Multiagent System Technologies (**MATES**), Erfurt, Germany, September, 2006
100. 1st Intl Conference on Self-Organization and Adaptation of Multi-agent and Grid Systems (**SOAS**), Glasgow, UK, December 2005
101. 4th Intl. Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Utrecht, The Netherlands, July 2005
102. 4th Intl. Central and Eastern European Conference on Multi-Agent Systems (**CEEMAS**), Budapest, Hungary, September 2005
103. 2nd Intl. Conference on Industrial applications of Holonic and Multi-Agent Systems (**HoloMAS**), Copenhagen, Denmark, 2005
104. 3rd Intl. Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), New York, USA, 2004.
105. 3rd Intl. Central and Eastern European Conference on Multi-Agent Systems (**CEEMAS**), Prague, Czech Republic, 2003
106. 1st Intl. Conference on Industrial Applications of Holonic and Multi-agent Systems (**HoloMAS**), Prague, Czech Republic, 2003
107. 1st Intl. Joint Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Bologna, Italy, 2002
108. 5th Intl. Conference on Autonomous Agents (**Agents**), Montreal, Canada, 2001; **Senior Program Committee Member.**
109. 2nd Asia-Pacific Conference on Intelligent Agent Technology (**IAT**), Japan, 2001.
110. 6th Intl. Conference on Practical Application of Intelligent Agents and Multi-Agent Technology (**PAAM**), Manchester, UK, 2001.
111. 4th Intl. Conference on Multiagent Systems (**ICMAS**), Boston, USA, 2000.
112. 3rd Intl. Conference on Autonomous Agents (**Agents**), Seattle, USA, 1999.
113. 4th Intl. Conference on Practical Application of Intelligent Agents and Multi-Agent Technology (**PAAM**), London, UK, 1999
114. 2nd Intl. Conference on Autonomous Agents (**Agents**), Minneapolis, USA, 1998.

Artificial Intelligence

115. 46th German Conference on Artificial Intelligence (**KI**), 2023
116. 45th German Conference on Artificial Intelligence (**KI**), 2022
117. 35th AAAI Conference on Artificial Intelligence (**AAAI**), virtual, 2021
118. 30th International Joint Conference on Artificial Intelligence (**IJCAI**), Montreal, CA, 2021
119. 44th German Conference on Artificial Intelligence (**KI**), virtual, 2021
120. 29th International Joint Conference on Artificial Intelligence (**IJCAI**), virtual, 2020
121. 34th AAAI Conference on Artificial Intelligence (**AAAI**), New York, USA, 2020
122. 43rd German Conference on Artificial Intelligence (**KI**), virtual, 2020
123. 4th International Joint Conference on Rules and Reasoning (**RuleML+RR**), virtual, 2020
124. 28th International Joint Conference on Artificial Intelligence (**IJCAI**), Macao, China, 2019

125. 3rd International Joint Conference on Rules and Reasoning (**RuleML+RR**), Bolzano, Italy, 2019
126. 42nd German Conference on Artificial Intelligence (**KI**), Kassel, Germany, 2019
127. 2nd International Joint Conference on Rules and Reasoning (**RuleML+RR**), Luxembourg, 2018
128. 41st German Conference on Artificial Intelligence (**KI**), Berlin, Germany, 2018
129. 27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (**IJCAI-ECAI**), Stockholm, Sweden, 2018
130. 29th AAAI Conference on Artificial Intelligence (**AAAI**), Austin (TX), USA, 2015
131. 6th IASTED International Conference on Computational Intelligence (**CI**), Innsbruck, Austria, 2015
132. 13th International IASTED Conference on Artificial Intelligence and Applications (**AIA**), Innsbruck, Austria, 2014
133. International Joint Conference on Artificial Intelligence (**IJCAI**), Barcelona, Spain, 2011. *Senior Program Committee Member.*
134. 19th European Conference on Artificial Intelligence (**ECAI**), Lisbon, Portugal, 2010
135. 6th International Conference on Prestigious Applications of Intelligent Systems (**PAIS**), Lisbon, Portugal, 2010
136. 8th International IASTED Conference on Artificial Intelligence and Applications (**AIA**), Innsbruck, Austria, 2008
137. 30th German Conference on Artificial Intelligence (**KI**), 10 – 13 September, Osnabrück, Germany, 2007
138. 7th International IASTED Conference on Artificial Intelligence and Applications (**AIA**), Innsbruck, Austria, 2007
139. 6th International IASTED Conference on Artificial Intelligence and Applications (**AIA**), 13 - 16 February, Innsbruck, Austria, 2006
140. 22nd International IASTED Conference on Artificial Intelligence and Applications (**AIA**), 16 - 18 February, Innsbruck, Austria, 2004
141. 3rd Intl. Conference on Knowledge Systems for Coalition Operations (**KSCO**), Pensacola, Oct 26-28, 2004, USA, 2004
142. 15th European Conference on Artificial Intelligence (**ECAI**), Lyon, France, 2002

Information Systems, Web Technologies

143. 19th International Conference on Web Information Systems and Technologies (**WebIST**), 2023
144. 29th International Conference on Cooperative Information Systems (**CoopIS**), 2023
145. 18th International Conference on Web Information Systems and Technologies (**WebIST**), 2022
146. 28th International Conference on Cooperative Information Systems (**CoopIS**), 2022

147. 17th International Conference on Web Information Systems and Technologies (**WebIST**), virtual, 2021
148. 26th International Conference on Cooperative Information Systems (**CoopIS**), Rhodes, Greece, 2020
149. 16th International Conference on Web Information Systems and Technologies (**WebIST**), virtual, 2020
150. 12th International Conference on Computational Collective Intelligence (**ICCCI**), Da Nang, Vietnam, 2020
151. 25th International Symposium on Methodologies for Intelligent Systems (**ISMIS**), virtual, 2020
152. 25th International Conference on Cooperative Information Systems (**CoopIS**), Rhodes, Greece, 2019
153. 15th International Conference on Web Information Systems and Technologies (**WebIST**), Vienna, Austria, 2019
154. 15th International Conference on Beyond Database Architectures and Structures (**BDAS**), Poland, 2019
155. International World Wide Web Conference (**Web**), Lyon, France, 2018
156. 24th International Conference on Cooperative Information Systems (**CoopIS**), Valetta, Malta, 2018
157. 14th International Conference on Web Information Systems and Technologies (**WebIST**), Vienna, Austria, 2018
158. 23rd International Conference on Cooperative Information Systems (**CoopIS**), Rhodes, Greece, 2017
159. 23rd International Symposium on Methodologies for Intelligent Systems (**ISMIS**), Warsaw, Poland, 2017
160. 13th International Conference on Web Information Systems and Technologies (**WebIST**), Porto, Portugal, 2017
161. 13th International Conference on Beyond Database Architectures and Structures (**BDAS**), Poland, 2017
162. 22nd International Conference on Cooperative Information Systems (**CoopIS**), Rhodes, Greece, 2016
163. 12th International Conference on Web Information Systems and Technologies (**WebIST**), Rome, Italy 2016
164. 21st International Conference on Cooperative Information Systems (**CoopIS**), Rhodes, Greece, 2015
165. 11th International Conference on Web Information Systems and Technologies (**WebIST**), Lisbon, Portugal, 2015
166. 6th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (**EUSPN**), Berlin, Germany, 2015
167. 8th International Conference on Mobile and Internet Services in Ubiquitous Computing (**IMIS**), Birmingham, UK, 2014
168. 10th International Conference on Web Information Systems and Technologies (**WebIST**), Barcelona, Spain, 2014

169. 10th IEEE International Conference on e-Business Engineering (**ICEB**), Coventry, UK, 2013. Agents for E-Business Track.
170. 10th International Conference on Mobile Web Information Systems (**MobiWIS**), Cyprus, 2013
171. 9th International Conference on Web Information Systems and Technologies (**WebIST**), Aachen, Germany, 2013
172. 8th International Conference on Web Information Systems and Technologies (**WebIST**), Porto, Portugal, 2012
173. 1st International Conference on Ambient Computing, Applications, Services and Technologies (**AMBIENT**), Barcelona, 2011
174. 25th International IEEE Conference on Advanced Information Networking and Applications (**AINA**), Singapore, 2011
175. 18th International World Wide Web Conference (**WWW**), Madrid, Spain, 2009
176. 23rd IEEE International Conference on Advance Information Networking and Application (**AINA**), Bradford, UK, 2009
177. 10th International Conference on Electronic Commerce (**ICEC**), Innsbruck, Austria, 2008
178. German Conference „Anwendungskonzepte und Vorgehensweise für dezentrale Informationssysteme“ as part of the German multi-conference on business informatics **MKWI**, Munich, Germany, 2008
179. IEEE International Conference on Adaptive Business Systems (**ICABS**), China, 2007
180. 8th International ACM Conference on Electronic Commerce (**EC**), San Diego, USA, 2007
181. International IEEE Conference on IP and Web Applications (**ICIW**), Guadeloupe, 2006
182. 3rd International Conference on Service-Oriented Computing (**ICSOC**), Amsterdam, The Netherlands, December 2005
183. 1st Intl. Conference on Mobile and Ubiquitous Systems: Networking and Services (**Mobiquitous**), August 22-25, 2004, Boston, Massachusetts, USA
184. 12th Intl. Conference on the World Wide Web (**WWW**), Budapest, Hungary, May 2003
185. 9th Intl. Conference on Database Systems for Advanced Applications (**DASFAA**), Kyoto, Japan, 2003.
186. 3rd Intl. Conference on Web Information Systems Engineering (**WISE**), Singapore, 2002
187. 11th Intl. Conference on the Worldwide Web (**WWW**), Hawaii, USA, 2002
188. 2nd Intl. Conference on Electronic Commerce and Web (**EC&Web**), London, UK, 2000.
189. Intl. Conference on Electronic Commerce & Web (**EC&Web**), Munich, Germany, 2001.
190. 2nd Intl. Conference on Web Information Systems Engineering (**WISE**), Kyoto, Japan, 2001

191. Intl. Conference on Advances in Database and Information Systems (**ADBIS**), Vilnius, Lithuania, 2001.
192. 4th IFCIS Conference on Cooperative Information Systems (**CoopIS**), Edinburgh, Scotland, 1999.
193. 5th Intl. Conference on Information Systems, Analysis and Synthesis (**ISAS**), Orlando, USA, 1999
194. 3rd IFCIS Conference on Cooperative Information Systems (**CoopIS**), New York, USA, 1998
195. Intl. Conference ETCE-96 Energy Week, Houston, TX/USA, 1996.

Other Topics

196. 7th International Conference on Agreement Technologies (**AT**), Thessaloniki, Greece, 2020
197. 5th International Conference on Agreement Technologies (**AT**), Bergen, Norway, 2018
198. 4th International Conference on Behavioral, Economic and Socio-Cultural Computing (**BESC**), Krakow, Poland, 2017
199. 5th International Conference on Agreement Technologies (**AT**), Evry, France, 2017
200. International Conference on Behavioral, Economic and Socio-Cultural Computing (**BESC**), Durham, USA, 2016
201. 6th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (**EUSPN**), Berlin, Germany, 2015
202. International Conference on Behavioral, Economic and Socio-Cultural Computing (**BESC**), Nanjing, China, 2015
203. 3rd International Conference on Agreement Technologies (**AT**), Athens, Greece, 2015
204. International Congress on Smart Energy Research in Europe (**SE**), Essen, Germany, 2015
205. 36th Annual Conference of the European Association for Computer Graphics (**EuroGraphics**) STAR, 2015
206. Smart Energy Research Conference (**SE**) @ e-World energy & water Congress, Essen, Germany, 2015
207. Smart Energy Research Conference (**SE**) @ e-World energy & water Congress, Essen, Germany, 2014
208. 9th ACM Symposium on Applied Computing (**SAC**), Technical Track on Coordination Languages, Models, and Applications, Seoul, Korea, 2007
209. 34th Intl. Conference on System Sciences (**HICSS**), Maui, 2001.
210. 4th Intl. Conference of Systemics, Cybernetics and Informatics (**SCI**), USA, 2000.

10.2 Workshops

Semantic Technologies

211. 7th International Workshop on Linked Web Data Management (**LWDM**), Venice, Italy, 2017
212. 6th International Workshop on Linked Web Data Management (**LWDM**), Bordeaux, France, 2016
213. 5th International Workshop on Linked Web Data Management (**LWDM**), Brussels, Belgium, 2015
214. 2nd International Workshop on Social News on the Web (**SNOW**) @ WWW, Seoul, Korea, 2014
215. 4th International Workshop on Linked Web Data Management (**LWDM**) @ EDBT, Athens, Greece, 2014
216. 6th International Workshop on Semantic Web Information Management (**SWIM**), USA, 2014
217. 3rd International Workshop on Linked Web Data Management (**LWDM**) @ 15th Extended Database Technology Conference (EDBT), Genoa, Italy, 2013
218. 3rd Workshop on the use of Semantic Web Technology for Mobile and Ubiquitous Applications (**SWUMA**), @ ISWC, Boston, USA, 2012.
219. 2nd International Workshop on Linked Web Data Management (**LWDM**) @ 15th Extended Database Technology Conference (EDBT), Berlin, Germany, 2012
220. International Workshop on Evaluation of Semantic Technologies (**IWEST**) @ ISWC, Shanghai, China, 2010
221. 1st International Workshop on Linked Web Data Management (**LWDM**) @ 14th Extended Database Technology Conference (EDBT), Uppsala, Sweden, 2011
222. 2nd AI Mashup Challenge (**AI-mashup**) @ ESWC, Heraklion, Greece, 2010.
223. 3rd International Workshops on Service Matchmaking and Resource Retrieval in the Semantic Web (**SMR2**), Washington DC, USA, 2009
224. 2nd International Workshops on Service Matchmaking and Resource Retrieval in the Semantic Web (**SMR2**), Karlsruhe, Germany, 2008
225. Intl. Symposium on Rule Interchange and Applications (**RuleML**), Orlando, USA, 2007.
226. 1st Intl. IEEE/ACM Workshop on Semantic Matchmaking and Resource Retrieval (**SMR**), at VLDB Conference, Seoul, Korea, September 2006
227. 2nd Intl. Workshop on the Use of Semantic Web Technologies for Ubiquitous and Mobile Applications (**SWUMA**), Trento, Italy, 2006
228. 5th Intl. DEXA Workshop on Web Semantics (**Webs**), Krakow, Poland, 2006.
229. 4th Intl. Workshop on Web Semantics (**Webs**) at 16th Intl. Conference on Database and Expert Systems (DEXA), Copenhagen, Denmark, August 2005.
230. AAAI Spring Symposium on Semantic Web Services, Stanford, USA, March 2004.
231. 1st Intl. Workshop on Semantic Web Technology for Mobile and Ubiquitous Applications @ ISWC, Hiroshima, Japan, 2004.

232. Intl. Workshop „XML-Technologien für das Semantic Web“ (**XSW**), Berlin, Germany, October 2003

Agent-Based Computing and AI

233. International Workshop on Multi-agent based Applications for Energy Markets, Smart Grids and Sustainable Energy Systems (**MASGES**) @PAAMS conference, 2021
234. International Workshop on Multi-agent based Applications for Energy Markets, Smart Grids and Sustainable Energy Systems (**MASGES**) @PAAMS conference, 2020
235. International Workshop on Hypermedia Agents (**HyperAgents**) @Web Conference, San Francisco, USA, 2019
236. 7th International Workshop on Smart Energy Networks & Multi Agent Systems (**SEN-MAS**), Leipzig, Germany, 2019.
237. International Workshop on Multi-agent based Applications for Energy Markets, Smart Grids and Sustainable Energy Systems (**MASGES**) @PAAMS conference, 2019
238. International Workshop on Multi-agent based Applications for Smart Grids and Sustainable Energy Systems (**MASGES**) @PAAMS conference, 2018
239. 1st Workshop on Sustainable Energy Systems, Smart Infrastructures, and Smart Environments (**SESSISE**), Posen, Poland, 2017
240. International Workshop on Multi-agent based Applications for Smart Grids and Sustainable Energy Systems (**MASGES**) @PAAMS conference, 2017
241. 5th International Workshop on Artificial Intelligence Techniques for Power Systems and Energy Markets (**IATEM**), Porto, Portugal, 2016
242. 4th International Workshop on Artificial Intelligence Techniques for Power Systems and Energy Markets (**IATEM**), Valencia, Spain, 2015
243. International Workshop on Multi-agent based Applications for Smart Grids and Sustainable Energy Systems (**MASGES**) @PAAMS conference, Valencia, Spain, 2015
244. 4th International Workshop on Smart Energy Networks & Multi Agent Systems (**SEN-MAS**), Lodz, Poland, 2015.
245. 3rd International Workshop on Smart Energy Networks & Multi Agent Systems (**SEN-MAS**), Warsaw, Poland, 2014.
246. International Workshop on Multi-agent based Applications for Smart Grids and Sustainable Energy Systems (**MASGES**) @PAAMS conference, Valencia, Spain, 2014
247. International Workshop on Information Sharing in Large-Scale Multi-Agent Systems (**ISLMAS**) @ AAMAS conference, 2013
248. 2nd International Workshop on Smart Energy Networks & Multi Agent Systems (**SEN-MAS**), Koblenz, Germany, 2013
249. International Workshop on Multi-agent based Applications for Sustainable Energy Systems (**MASSES**) @PAAMS conference, Valencia, Spain, 2013
250. 2nd International Workshop on Intelligent Agent Technology, Power Systems and Energy Markets (**IATEM**), @24th DEXA conference, Prague, Czech Republic, 2013.
251. 1st International Workshop on Intelligent Agent Technology, Power Systems and Energy Markets (**IATEM**), @23rd DEXA conference, Vienna, Austria, 2012.

252. 1st International Workshop on Smart Energy Networks & Multi Agent Systems (**SEN-MAS**), Wroclaw, Poland, 2012.
253. 4th International Workshop on Agents and Data Mining Interaction (**ADMI**), Toronto, Canada, 2010
254. 3rd International Workshop on Agents and Data Mining Interaction (**ADMI**), Budapest, Hungary, 2009
255. 10th International Workshop on Engineering Societies in the Agents' World (**ESAW**), Utrecht, The Netherlands, 2009
256. 2nd International Workshop on Autonomous Intelligent Systems: Agents and Data Mining (**AIS-ADM**), St Petersburg, Russia, 2007
257. 4th European Workshop on Multiagent Systems (**EUMAS**), Lisbon, Portugal, 2006
258. 1st International Workshop on Privacy and Security in Agent-Based Collaborative Environments (**PSACE**) at AAMAS 2006 Conference, Japan, 2006
259. 1st International Workshop on Autonomous Intelligent Systems: Agents and Data Mining (**AIS-ADM**), St Petersburg, Russia, 2005
260. 3rd European Workshop on Multiagent Systems (**EUMAS**), Brussels, 2005
261. 4th International Workshop on Agents and P2P Computing (**AP2P**) @ AAMAS Conference, Utrecht, The Netherlands, 2005
262. 1st AAAI Fall Symposium on Agents and the Semantic Web (**ASW**), Arlington, USA, November 2005.
263. 5th International Workshop on Agent-Based Simulation (**ABS**), Portugal, 2004
264. 4th International Symposium „From Agent Theory to Agent Implementation“ (**AT2AI**), @ 17th European Cybernetics and Systems Research (EMCSR-2004), Vienna, 2004
265. 3rd International Workshop on Agents and P2P Computing (**AP2P**) @ AAMAS Conference, New York, USA, 2004
266. 1st European Workshop on Multiagent Systems (**EUMAS**), Oxford, UK, 2003
267. 1st International Workshop on Autonomy (**Autonomy**) @AAMAS Conference 2003.
268. 3rd International IEEE/ACM Workshop on Agent-based cluster and grid computing (**AgentGrid**), Tokyo, Japan, 2003.
269. 1st International Workshop on Teamwork and Coalition Formation @ AAMAS Conference, Bologna, Italy, 2002.
270. 2nd International Workshop on Ontologies in Agent Systems (**OAS**) @ AAMAS Conference, Bologna, Italy, 2002.
271. 2nd International Workshop on Challenges in Open Agent Environments, @ AAMAS Conference 2002, Bologna, Italy, 2002
272. 10th International Workshop on Multi-Agent Systems (**MAAMAW**), Annecy, France, 2001.
273. 2nd International Workshop on Infrastructure for Scalable Multi-Agent Systems @ AAMAS Conference, Montreal, Canada, 2001.
274. International Workshop on Ontologies in Agent Systems @ AAMAS Conference, Montreal, Canada, 2001
275. International Workshop on Internet Bots: Systems and Applications (**INBOSA**) @ DEXA Conference, Munich, Germany, 2001.

- 276. International Workshop on Engineering Societies in the Agents' World (**ESAW**), Prague, 2001
- 277. International ICSC Symposium on Multi-Agents and Mobile Agents in Virtual Organizations and E-Commerce (**MAMA**), Australia, 2000.
- 278. International Workshop on Engineering Societies in the Agents' World (**ESAW**) @ ECAI Conference, Berlin, Germany, 2000.
- 279. International Workshop on Agent-Based Information Systems (**ABIS**) @ DEXA Conference, Greenwich, UK, 2000.
- 280. 2nd German Joint Meeting on DAI, Databases and Information Retrieval (**ADI**), Rostock, Germany, 1999.
- 281. 1st International Workshop on Agent Communication Languages (**ACL**) @ IJCAI Conference, Stockholm, Sweden, 1999.
- 282. 1st International Symposium 'From Agent Theory to Agent Implementation' (**AT2AI**) @ European Conference on Cybernetics and Systems Research, Vienna, 1998.
- 283. Workshop on Intelligent Agents in Information and Process Management @ 22nd German Conference on Artificial Intelligence (**KI**) of German Computer Society, Bremen, 1998.

Web Technologies, Service-Oriented Computing

- 284. International Workshop on Quality of Service in Smart Cities (**QoS-SC**), Pittsburgh, USA, 2016
- 285. AAAI Spring Symposium on Intelligent Web Services Meet Social Computing (**AAAI SS**), Stanford, California, 2012
- 286. International Workshop on Challenges in Mobile Service Computing (**CMSC**) @ ECOWS Conference, Lugano, Switzerland, 2011
- 287. 9th International Workshop on Service-Oriented Computing: Agents, Semantics and Engineering (**SOCASE**) @ FedCSIS Conference, Szczecin/Stettin, Poland, 2011
- 288. 8th International Workshop on Service-Oriented Computing: Agents, Semantics and Engineering (**SOCASE**) @ AAMAS, Toronto, Canada, 2010.
- 289. International IEEE Symposium on Applications and the Internet (**SAINT**), USA, 2001.
- 290. International Workshop on E-Business & Intelligent Web @ IJCAI 2001, Seattle, USA, 2001

Information Systems, Data Mining, P2P and Mobile Computing

- 291. International Workshop on Modelle in der KI (**MOD**), Vienna, Austria, 2020
- 292. 3rd International Workshop on Mining Ubiquitous and Social Environments (**MUSE**), @16th ECML conference, Bristol, UK, 2012.
- 293. 5th Intl Workshop on Databases, Information Systems and P2P Computing (**DBISP2P**) @ VLDB Conference, Vienna, Austria, 2007
- 294. 4th Intl Workshop on Databases, Information Systems and P2P Computing (**DBISP2P**) @ VLDB Conference, Seoul, South Korea, 2006

295. 3rd Intl Workshop on Databases, Information Systems and P2P Computing (**DBISP2P**) @ VLDB conference, Trondheim, Norway, 2005
296. 8th International Workshop on High Performance and Distributed Data Mining (**HPDM**) @ 5th Intl. SIAM Conference on Data Mining, Newport CA, USA, 2005.
297. 1st International Workshop on Peer-To-Peer Knowledge Management (**P2PKM**) @ 1st Int. Conference on Mobiquitous Computing, 2004
298. 1st International Workshop on Peer-To-Peer Computing and Databases (**P2P&DB**) @ EDBT Conference, Heraklion, Greece, 2004.
299. International Workshop on Hybrid Intelligent Systems for Data Mining @ IEEE International Conference on Data Mining (**ICDM**), San Jose, USA, 2001.
300. International Workshop on Intelligent Information Integration (**I3**) @ IJCAI Conference, Stockholm, Sweden, 1999.

Others

301. 1st Intl Workshop on Theory and Practice of Open Computational Systems (**TAPOCS**), 2003
302. 12th International IEEE Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises (**WETICE**), Linz, Austria, 2003
303. 7th IEEE Intl Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises (**WETICE**), Stanford, USA, 1998
304. **ACAI** Workshop on Machine Learning and Applications, Greece, 1999.

Further Journal Reviewing Activities

I have been also invited to serve as a reviewer for the following scientific journals:

- IEEE Transactions of Services Computing
- ACM Transactions of Internet Technology
- Int. Journal of Software Tools for Technology Transfer, Springer
- Int. Journal of Autonomous Agents and Multi-Agent Systems, Springer
- Int. Journal of Applied Artificial Intelligence, Taylor&Francis
- Int. Journal of Intelligent Information Systems, Springer
- Int. Journal of Parallel and Distributed Computing, Elsevier
- Int. Journal of Web Engineering, Rinton
- IEEE Journal of Intelligent Systems
- IEEE Journal of Internet Computing
- IEEE Transactions of Data and Knowledge Engineering
- Semantic Web Journal (online), IOS

11. Publications

My co-/authored publications (**231**) are listed in inverted chronological order and sorted in the categories of books (30), special journal issues (3), journal papers (35), book chapters (18), conference (105) and workshop papers (36), and technical reports (4).

11.1 Books

Anthologies

- [A04-05] Calisti, M.; Unland, R.; Klusch, M. (2005) Eds.: Software Agent-based Applications, Platforms and Development Kits. Whitestein Technologies Series, Birkhäuser, ISBN 3-7643-7347-4.
- [A03-03] Klusch, M., Bergamaschi, S., Edwards, P., Petta, P. (2003) Eds.: Intelligent Information Agents: The AgentLink Perspective. LNAI series vol. 2586, Springer.
- [A02-01] Omicini, A.; Zambonelli, F.; Klusch, M.; Tolksdorf, R. (2001) Eds.; Coordination of Internet Agents: Models, Technologies, and Applications. Springer, ISBN 3-540-41613-7.
- [A01-99] Klusch, M. (1999) Ed.: Intelligent Information Agents - Agent-Based Information Discovery and Management on the Internet. Springer, ISBN 3-540-65112-8.

Proceedings

- [P23-16] Klusch, M.; Unland, R.; Shehory, O.; Pokahr, A.; Ahrndt, S. (2016) Eds.: Multiagent System Technologies. Proceedings of the 14th German Conference MATES, Klagenfurt, Austria, Springer, LNAI 9872. [B]
- [P22-13] Klusch, M.; Thimm, I.; Paprzycki, M. (2013) Eds.: Multiagent System Technologies. Proceedings of the 11th German Conference MATES, Koblenz, Germany, Springer, LNAI 8076. [B]
- [P21-10] Bernstein, A.; Grace, P.; Klusch, M.; Paolucci, M. (2010) Eds.: Proceedings of 4th International Workshop on Service Matchmaking and Resource Retrieval in the Semantic Web, at ISWC 2010, Shanghai, China, CEUR, 2010.
- [P20-09] Bruza, P.; Rijsbergen, K.v.; Sofge, D.; Lawless, B.; Klusch, M. (2009) Eds.: Quantum Interaction. Third International Symposium QI 2009, Saarbrücken, Germany, March 25 – 27, 2009, LNCS 5494, Springer.

- [P19-08] Klusch, M.; Polleres, A.; Pechoucek, M. (2008) Eds.: Cooperative Information Agents XII. Proceedings of the Eleventh International Workshop CIA 2008, Prague, Czech Republic, September 10 – 12, 2008, LNAI 5180, Springer.
- [P18-08] Kowalczyk, R.; Huhns, M.; Klusch, M.; Maamar, Z.; Vo, Q.B. (2008) Eds.: Proceedings of the International Workshop SOCASE on Service-Oriented Computing: Agents, Semantics, and Engineering. Estoril, Portugal, 2008.
- [P17-07] Petta, P., Müller, J., Klusch, M., Georgeff, M. (2007) Eds.: Multiagent System Technologies. Proceedings of the 5th German Conference MATES, Leipzig, Germany, LNAI 4687, Springer. [B]
- [P16-07] Klusch, M., Hindriks, K., Sterling, L., Papazoglou, M. (2007) Eds.: Cooperative Information Agents XI. Proceedings of the Eleventh International Workshop CIA 2007, Delft, The Netherlands, September 19 – 21, 2007, LNAI 4676, Springer.
- [P15-06] Klusch, M.; Rovatsos, M.; Payne, T. (2006) Eds.: Cooperative Information Agents X. Proceedings of the Tenth International Workshop CIA 2006, Edinburgh, UK, September 11 – 13, 2006, LNAI series, 4149, Springer.
- [P14-05] Eymann, T.; Klügl, F.; Lamersdorf, W.; Klusch, M.; Huhns, M. (2005) Eds.: Multiagent System Technologies III. Proceedings of the 3rd German Conference MATES 2005, September 2005, Koblenz, LNAI series, 3550, Springer. [B]
- [P13-04] Klusch, M.; Ossowski, S.; Kashyap, V.; Unland, R. (2004) Eds.: Cooperative Information Agents VIII. Proceedings of Eighth International Workshop CIA-2004 on Cooperative Information Agents, Erfurt, September 27 - 29, 2004, LNAI series, 3919, Springer.
- [P12-03] Schillo, M., Klusch, M.; Müller, J., Tianfield, H. (2003) Eds.: Multiagent System Technologies. Proceedings of First German Conference (MATES 2003), Erfurt, Germany, LNAI 2831, Springer. [B]
- [P11-03] Liu, J.; Klusch, M.; Zhong, N.; Cercone N. (2003) Eds.: Proceedings of the IEEE International Conference on Web Intelligence WI-2003, IEEE Press.
- [P10-03] Liu J.; Faltings, B.; Klusch, M.; Liu, C. (2003) Eds.: Proceedings of the IEEE / WIC International Conference on Intelligent Agent Technology IAT-2003, IEEE Press.

- [P09-03] Klusch, M., Omicini, A., Ossowski, S., Laamanen, H. (2003) Eds.: Cooperative Information Agents VII. Proceedings of Seventh International Workshop CIA-2003 on Cooperative Information Agents, Helsinki, Finland, August 27 - 29, 2003. LNAI series, 2782, Springer.
- [P08-02] Klusch, M., Ossowski, S., Shehory, O. (2002) Eds.: Cooperative Information Agents VI. Proceedings of Sixth International Workshop CIA-2002 on Cooperative Information Agents, Madrid, September 18 - 20, 2002, LNAI series, 2446, Springer.
- [P07-01] Klusch, M. Zambonelli, F. (2001) Eds.: Cooperative Information Agents V, Proceedings of Fifth International Workshop CIA-2001, Modena, Italy, September 6 – 8, 2001, LNAI series, 2182, Springer.
- [P06-00] Bouzeghoub, M.; Klusch, M.; Nutt, W.; Sattler, U. (2000) Eds.: Proceedings of the 7th International Workshop on Knowledge Representation meets Databases (KRDB 2000).
- [P05-00] Klusch, M.; Kerschberg, L. (2000) Eds.: Cooperative Information Agents IV. Proceedings of Fourth International Workshop CIA-2000 on Cooperative Information Agents, Boston, USA, July 7 - 9, 2000, LNAI series, 1860, Springer.
- [P04-99] Klusch, M.; Shehory, O.; Weiß, G. (1999) Eds.: Cooperative Information Agents III. Proceedings of Third International Workshop CIA-99 on Cooperative Information Agents, Uppsala, Sweden, July 31 - August 2, 1999, LNAI series, 1652, Springer.
- [P03-98] Holsten, A.; Joeris, G.; Klauk, C.; Klusch, M.; Mueller, HJ.; Mueller, JP. (1998) eds.: Intelligent Agents in Information and Process Management. Proceedings of Workshop at the 22nd German Annual Conference on Artificial Intelligence (KI98), Bremen; TZI-Bericht Nr. 9, Universität Bremen, Germany
- [P02-98] Klusch, M.; Weiß, G. (1998) Eds.: Cooperative Information Agents II - Learning, Mobility, and Electronic Commerce for Information Discovery in the Internet. Proceedings of Second International Workshop CIA-98 on Cooperative Information Agents, Paris, July 4 - 7, 1998, LNAI series, 1435, Springer.
- [P01-97] Kandzia, P.; Klusch, M. (1997) Eds.: Cooperative Information Agents. Proceedings of First International Workshop CIA-97 on Cooperative Information Agents, Kiel, Germany, February 26 - 18, 1997, Lecture Notes in Artificial Intelligence, Vol. 1202, Springer.

Theses

- [T03-08] Klusch, M. (2008): On Agent-Based Semantic Service Coordination. Habilitation Thesis, University of the Saarland, Saarbruecken, Germany, 466 pages. <http://www-ags.dfki.uni-sb.de/~klusch/habilitation-thesis-klusch-2008-woDOC.pdf>
- [T02-98] Klusch, M. (1998): Kooperative Informationsagenten im Internet. PhD Thesis (Dissertation). Schriftenreihe Forschungsergebnisse zur Informatik, Band 36, Kovac Verlag, Hamburg, ISBN 3-86064-746-6, 200 pages.
- [T01-91] Klusch, M. (1991): Entwicklung und Implementierung eines hybrid-neuralen Systems zur Klassifikation von Sternen. Diploma Thesis, Christian-Albrecht-Universität zu Kiel, Institut für Informatik und Praktische Mathematik, Kiel, Germany.

11.2 Special Issues of Journals

- [S03-05] Klusch, M.; Ossowski, S.; Unland, R. (Guest editors), *Engineering Artificial Intelligence Applications*, Special Issue on Best Papers of CIA 2004, Elsevier Science, vol. 18 (7), 2005
- [S02-02] Klusch, M.; Zambonelli, F. (Guest editors), *Cooperative Information Systems*, Special Issue on Selected Best Papers of CIA 2002, World Scientific, 11 (3), 2002.
- [S01-01] Klusch, M. (Guest editor), *Cooperative Information Systems*, Double Special Issue on Intelligent Information Agents: Theory and Applications, 10 (1&2), World Scientific, March 2001.

11.3 Journal Papers

- [J35-23] Macaluso, A.; Klusch, M.; Lodi, S.; Sartori, S. (2023): MAQA: A Quantum Framework for Supervised Learning. *Quantum Information Processing*, 22, Springer
- [J34-21] Poibrenski, A.; Klusch, M.; Vozniak, I.; Mueller, C. (2020): Multimodal Multi-Pedestrian Path Prediction for Autonomous Cars. *Applied Computing Review*, 20(4), ACM
- [J33-19] Dahmen, T.; Trampert, P.; Boughorbel, F.; Sprenger, J.; Klusch, M.; Fischer, K.; Kübel, C.; Slusallek, P. (2019): Digital Reality: A Model-Based Approach to Supervised Learning from Synthetic Data. *AI Perspectives*, Springer

- [J32-18] Mazzola, L.; Kapahnke, P.; Klusch, M. (2018): Smart Process Optimization and Adaptive Execution with Semantic Services in Cloud Manufacturing. *Information*, 9(11), MDPI.
- [J31-18] Mazzola, L.; Kapahnke, P.; Klusch, M. (2018): Semantic Composition of Optimal Process Service Plans in Manufacturing with ODERU. *Web Information Systems*, 14(4), Emerald.
- [J30-16] Mihailescu, R.; Ossowski, S.; Klusch, M. (2016): eCOOP: Applying Dynamic Coalition Formation to the Power Regulation Problem in Smart Grids. *Computational Intelligence*, Wiley.
- [J29-16] Klusch, M.; Kapahnke, P.; Schulte, S.; Lecue, F.; Bernstein, A. (2016): Semantic Web Service Search: A Brief Survey. *Kuenstliche Intelligenz*, 2/16, Springer.
- [J28-14] Zinnikus, I.; Byelozyorov, S.; Cao, X.; Klusch, M.; Krauss, C.; Nonnengart, A.; Spieldenner, T.; Warwas, S.; Slusallek, P. (2014): A Collaborative Virtual Workspace for Factory Configuration and Evaluation. *EAI Endorsed Transactions on Collaborative Computing*, ICST.
- [J27-13] Cao, X.; Klusch, M. (2013): Semantic-Driven K-Walker Search in Unstructured Peer-to-Peer Networks. *IEEE Computer Society Special Technical Community on Social Networking E-Letter*, 1(3), IEEE [<http://stcsn.ieee.net/e-letter>].
- [J26-12] Klusch, M.; Kapahnke, P. (2012): The iSeM Matchmaker: A Flexible Approach For Adaptive Hybrid Semantic Service Selection. *Web Semantics*, 15, Elsevier.
- [J25-12] Klusch, M.; Kapahnke, P. (2012): Adaptive Signature-Based Semantic Selection of Services with OWLS-MX3. *Multiagent and Grid Systems*, 8(1), IOS Press.
- [J24-10] Klusch, M.; Kapahnke, P.; Zinnikus, I. (2010): Adaptive Hybrid Semantic Selection of SAWSDL Services with SAWSDL-MX2. *Semantic Web and Information Systems*, 6(4), IGI Global.
- [J23-09] Kuester, U.; Koenig-Ries, B.; Petrie, C.; Klusch, M. (2009): On the Evaluation of Semantic Web Service Frameworks. *Semantic Web and Information Systems*, 4, IGI Global.
- [J22-09] Klusch, M.; Fries, B.; Sycara, K. (2009): OWLS-MX: A Hybrid Semantic Web Service Matchmaker for OWL-S Services. *Web Semantics*, 7(2), Elsevier.
- [J21-09] Klusch, M.; Kaufer, F. (2009): WSMO-MX: A Hybrid Semantic Web Service Matchmaker. *Web Intelligence and Agent Systems*, 7(2), IOS Press.

- [J20-06] Blankenburg, B.; Klusch, M. (2006): Privacy-Preserving Coalition Forming Between Rational Service Agents. *Künstliche Intelligenz*, KI 1/2006, BöttcherIT Verlag.
- [J19-06] Da Silva, J.C.; Klusch, M. (2006): Inference on Distributed Data Clustering. *Engineering Artificial Intelligence Applications*, Special Issue on Data Mining, P. Perner (eds.), Elsevier.
- [J18-06] Da Silva, J.C.; Klusch, M.; Lodi, S., Moro, G-L. (2006): Privacy-preserving agent-based distributed data clustering. *Web Intelligence and Agent Systems*, 4(2):221-238, IOS Press.
- [J17-06] Schuldt, H.; Möller, R.; Klusch, M.; Gerber, A. (2006): Next Generation Applications in Healthcare Digital Libraries using Semantic Service Composition and Coordination. *Health Informatics*,12(2), SAGE, USA.
- [J16-05] Costa Da Silva, J.; Giannella, C.; Bhargava, R.; Kargupta, H.; Klusch, M.; (2005): Distributed Data Mining and Agents. *Engineering Applications of Artificial Intelligence*, 18 (7), Elsevier.
- [J15-04] Contreras, J.; Klusch, M.; Krawczyk, J. (2004): Numerical Solutions to Nash-Cournot Equilibria in Coupled Constraint Electricity Markets. *IEEE Transactions on Power Systems*, 19(1), February 2004, IEEE Press.
- [J14-04] Gerber, A.; Klusch, M. (2004): AGRICOLA – Agenten für mobile Planungsdienste in der Landwirtschaft. *Künstliche Intelligenz*, KI 1/2004, pp 38-42, arendtap Verlag, (in German).
- [J13-03] Gerber, A.; Russ, C.; Klusch, M. (2003). Supply Web Co-ordination by an Agent-based Trading Network with Integrated Logistics Services. *Electronic Commerce Research and Applications*. Vol 2 (2), Elsevier.
- [J12-02] Klusch, M.; Gerber, A. (2002): Dynamic Coalition Formation among Rational Agents. *IEEE Intelligent Systems*, 17 (3), May/June, IEEE CS Press.
- [J11-02] Klusch, M.; Gerber, A. (2002): CASA: Agent-based Integrated Services Network for Timber Production and Sales. *IEEE Intelligent Systems*, 17(2), January/February.
- [J10-02] Sycara, K.; Widoff, S.; Klusch, M.; Lu, J. (2002): LARKS: Dynamic Matchmaking Among Heterogeneous Software Agents in Cyberspace. *Autonomous Agents and Multi-Agent Systems*, Kluwer Academic Press.

- [J09-01] Klusch, M. (2001): Information Agent Technology for the Internet: A Survey. *Data and Knowledge Engineering*, Special Issue on Intelligent Information Integration, D. Fensel (Ed.), Vol. 36(3), Elsevier Science, pages 337 – 372.
- [J08-00] Sierra, C; Wooldridge, M; Sadeh, N; Conte, R; Klusch, M; Treur J (2000): Agent Research and Development in Europe (Part One), *Intelligence in Industry*, Issue 4, May/June.
- [J07-00] Sierra, C; Wooldridge, M; Sadeh, N; Conte, R; Klusch, M; Treur J (2000): Agent Research and Development in Europe (Part Two), *Intelligence in Industry*, Issue 5, July/August
- [J06-00] Sierra, C; Wooldridge, M; Sadeh, N; Conte, R; Klusch, M; Treur J (2000): Agent Research and Development in Europe (Part Three), *Intelligence in Industry*, Vol 6, September/October 2000, pp. 7-13.
- [J05-00] Sierra, C; Wooldridge, M; Sadeh, N; Conte, R; Klusch, M; Treur J (2000): Agent Research and Development in Europe. *Information Services and Use*, 20(4), 2000, pp 189-202.
- [J04-99] Sycara, K.; Lu, J.; Klusch, M.; Widoff, S. (1999): Dynamic Service Matchmaking among Agents in Open Information Environments. *ACM SIGMOD Record*, Special Issue on Semantic Interoperability in Global Information Systems. A. Ouksel, A. Sheth (Eds.), ACM Press.
- [J03-98] Klusch, M.; Benn, W. (1998): Intelligente Informationagenten im Internet. *Künstliche Intelligenz*, Special Issue on Intelligent Information Agents, E. Andre and T. Rist (Eds.), Springer.
- [J02-94] Klusch, M. (1994): The Use of a Hybrid Neural System for the Classification of Stars. *Vistas in Astronomy*, 38 (3), Special Issue on Neural Network Applications in Astronomy, Elsevier Science, pp.299-307.
- [J01-93] Klusch, M.; Napiwotzki, R. (1993): HNS - A hybrid neural system and its use for the classification of stars. *European Journal on Astronomy and Astrophysics*, Vol. 276, pp.309-319.

11.4 Book Chapters

- [B18-14] Klusch, M. (2014): Service Discovery. In: Alhadjj, R.; Rokne, J. (eds.), *Encyclopedia of Social Networks and Mining (ESNAM)*; Springer.

- [B17-12] Kapahnke, P.; Klusch, M. (2012): Adaptive Hybrid Selection of Semantic Services: The iSeM Matchmaker. In: Blake, M.B.; Cabral, L.; König-Ries, B.; Küster, U.; Martin, D. (Eds.): Semantic Web Services – Advancement through Evaluation; Springer.
- [B16-12] Klusch, M. (2012): The S3 Contest: Performance Evaluation of Semantic Service Matchmakers. In: Blake, M.B.; Cabral, L.; König-Ries, B.; Küster, U.; Martin, D. (Eds.): Semantic Web Services – Advancement through Evaluation; Springer.
- [B15-09] Nesbigall, S.; Warwas, S.; Kapahnke, P.; Schubotz, R.; Klusch, M.; Fischer, K.; Slusallek, P. (2010): ISReal: A Platform for Intelligent Simulated Realities. In: J. Filipe, A. Fred, B. Sharp (Eds.) Best papers of Agents and Artificial Intelligence 2010. Communications in Computer and Information Science. Springer.
- [B14-09] Kuester, U.; Koenig-Ries, B.; Klusch, M. (2009): Evaluating Semantic Web Service Technologies: Criteria,, Approaches and Challenges. In: Progressive Concepts for Semantic Web Evolution: Applications and Developments. Advances in Semantic Web Information Systems series. IGI Global.
- [B13-08] Klusch, M. (2008): Semantic Web Service Coordination. In: M. Schumacher, H. Helin, H. Schuldt (Eds.) CASCOM - Intelligent Service Coordination in the Semantic Web. Chapter 4. Birkhäuser Verlag, Springer.
- [B12-08] Klusch, M. (2008): Semantic Web Service Description. In: M. Schumacher, H. Helin, H. Schuldt (Eds.) CASCOM - Intelligent Service Coordination in the Semantic Web. Chapter 3. Birkhäuser Verlag, Springer.
- [B11-08] B. Blankenburg, L. Botelho, F. Calhau, A. Fernandez, M. Klusch, S. Ossowski (2008): Service Composition. In: M. Schumacher, H. Helin, H. Schuldt (Eds.) CASCOM - Intelligent Service Coordination in the Semantic Web. Chapter 5. Birkhäuser Verlag, Springer.
- [B10-08] D. Bonardi, L. Botelho, M. Klusch, A. Lopes, T. Möller, A. De Oliveira e Sousa, M. Vasirani (2008): Quantitative Analysis. In: M. Schumacher, H. Helin, H. Schuldt (Eds.) CASCOM - Intelligent Service Coordination in the Semantic Web. Chapter 16. Birkhäuser Verlag, Springer.
- [B09-08] L. Botelho, A. Fernandez, M. Klusch, L. Pereira, T. Santos, P. Pais, M. Vasirani (2008): Service Discovery. In: M. Schumacher, H. Helin, H. Schuldt (Eds.) CASCOM - Intelligent Service Coordination in the Semantic Web. Chapter 16. Birkhäuser Verlag, Springer.

- [B08-04] Klusch, M. (2004): Toward Quantum Computational Agents. In: Computational Autonomy and Agents. M Nickles, M Rovatsos, G Weiss (eds.), LNAI series, 2969, Springer.
- [B07-04] Klusch M., Rist, T., Andre, E. Ishida, T., Nakashini, H. (2004): Interactive Information Agents and Interfaces. In: The Handbook of Human Factors in Web Design, RW Proctor, K-P L Vu (eds.), Lawrence Erlbaum Associates.
- [B06-03] Klusch, M., Lodi, S., Moro, G-L. (2003): Agent-Based Distributed Data Mining: The KDEC Scheme. In: Klusch, M., Bergamaschi, S., Edwards, P., Petta, P. (2003) Eds.: Intelligent Information Agents: The AgentLink Perspective. LNAI series, 2586, Springer.
- [B05-02] Klusch, M., Bürckert, H.-J., Gerber, A., Russ, C. (2002): Applications of Information Agents and Systems. In: L.C. Jain (ed.), Practical Applications of Intelligent Agents, Physica-Verlag/Springer.
- [B04-01] Klusch, M, Sycara, K. (2001): Brokering and Matchmaking for Coordination of Agent Societies: A Survey. In: Coordination of Internet Agents, A. Omicini et al. (eds.), Springer.
- [B03-00] Klusch, M. (2000): Agent-Mediated Trading: Intelligent Agents and E-Business. In: A.L.G. Hayzelden, R. Bourne (eds.): Agent Technology Applied to Networked Systems. John Wiley & Sons, Chicester, England.
- [B02-00] Klusch, M. (2000): Information Agents for Knowledge Discovery and Data Mining on the Internet. In: U. Küsters, K.D. Wilde (Eds.), Handbook Data Mining im Marketing - Knowledge Discovery in Databases. Chapter 10.2, Vieweg/Gabler Verlag (in German).
- [B01-96] Klusch, M. (1996): Utilitarian coalition formation between information agents. In: S. Kirn and G. O'Hare (Eds.), Cooperative Knowledge Processing, Chapter 13, Springer, London.

11.5 Conference Papers

- [C105-23] Antakli, A.; Kazimov, A.; Spieldenner, D.; Jaramillo, E.; Zinnikus, I.; Klusch, M. (2023): AJAN: An Engineering Framework for Semantic Web-Enabled Agents and Multi-Agent Systems. Proc. 21st International Conference on Practical Applications of Agents and Multiagent Systems (PAAMS), LNCS, Springer.

- [C104-23] Gupta, D.; Klusch, M. (2023): Hybrid Deep Reinforcement Learning and Planning for Safe and Comfortable Automated Driving. Proc. 34th IEEE International Intelligent Vehicles Symposium (IV), IEEE. Also: arXiv:2301.00650v1 (2022)
- [C103-23] Sprenger, J.; Hell, L.; Klusch, M.; Kobayashi, Y.; Kudo, S.; Mueller, C. (2023): Cross-Cultural Behavior Analysis of Street-Crossing Pedestrians in Japan and Germany. Proc. 34th IEEE International Intelligent Vehicles Symposium (IV), IEEE.
- [C102-23] Venkatesh, S.; Macaluso, A.; Klusch, M. (2023): QuACS: Variational Quantum Algorithm for Coalition Structure Generation in Induced Subgraph Games. Proc. ACM International Conference on Computing Frontiers (CF), ACM.
- [C101-23] Venkatesh, S.; Macaluso, A.; Klusch, M. (2023): GCS-Q: Quantum Graph Coalition Structure Generation. Proc. International Conference on Computational Science (ICCS), Springer. Also: arXiv:2212.11372v1 (2022)
- [C100-22] Venkatesh, S.; Macaluso, A.; Klusch, M. (2022): BILP-Q: Quantum Coalition Structure Generation. Proc. 19th ACM International Conference on Computing Frontiers. ACM.
- [C99-22] Macaluso, A.; Orazi, F.; Klusch, M.; Lodi, S.; Sartori, C. (2022): A Variational Algorithm for Quantum Single Layer Perceptron. Proc. 8th International Conference on Machine Learning, Optimization, and Data Science (LOD); LNCS; Springer
- [C98-21] Antakli, A.; Vozniak, I.; Lipp, N.; Klusch, M.; Mueller, C. (2021): HAIL: Modular Agent-Based Pedestrian Imitation Learning. Proc. 19th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS). LNCS, Springer.
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- [W34-10] Klusch, M.; Kapahnke, P. (2010): Adaptive Signature-Based Selection of Semantic Services in OWL-S. Proceedings of 1st International IEEE Workshop on Service-Oriented Computing and Multi-Agent Systems (SOCMAS) at IEEE Congress on Services, Invited copy of [W33-09].
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- [W32-08] Klusch, M.; Kapahnke, P. (2008): Semantic Web Service Selection with SAWSDL-MX. CEUR Proceedings of 2nd International Workshop on Semantic Matchmaking and Resource Retrieval (SMR2) at ISWC, Karlsruhe, Germany.
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- [W30-08] C. Hahn, S. Nesbigall, S. Warwas, I. Zinnikus, M. Klusch, K. Fischer (2008): Model-driven Approach to the Integration of Multiagent Systems and Semantic Web Services. Proceedings of IEEE 3rd International Workshop on Modeling, Design, and Analysis for Service-oriented Architecture (MDA4SOA), Munich, Germany.
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- [W25-06] Blankenburg, B.; He, M.; Klusch, M.; Jennings, N.R. (2006): Risk-Bounded Formation of Fuzzy Coalitions Among Service Agents. Proceedings of 10th Intl Workshop on Cooperative Information Agents, LNAI 4149, Springer, Edinburgh, UK.
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11.7 Technical Reports

- [R04-22] Mueller, C; Vogt, R.; Nonnengart, A.; Klusch, M.; Meyer-Vitali, A. (2022): Security of AI Systems: Fundamentals - Security Aspects of Symbolic and Hybrid AI Systems. Report of Federal Office for Information Security (BSI), Bonn, Germany.
- [R03-04] Siekmann, J.; Fischer, K.; Hutter, D.; Klusch, M.; Stephan, W. (2004): Security in Mobile Multiagent Systems. Final Project Report BMBF-FKZ 01 IW A01, DFKI Saarbrücken, Germany.
- [R02-98] Sycara, K.; Lu, J.; Klusch, M. (1998): Interoperability among Heterogeneous Software Agents on the Internet. Technical Report CMU-RI-TR-98-22, Carnegie Mellon University, Robotics Institute, Pittsburgh, USA
- [R01-93] Klusch, M. (1993): HNS – A Hybrid Neuronal System for Classification of Stars. Universität Kiel, Institut für Informatik und Praktische Mathematik, Technischer Bericht 9308, Kiel, Germany

12. Scientific Talks

I have given scientific talks (**75**) at different institutions and conferences listed as follows. This list does not include the large number of my scientific presentations at companies and classified project review / scientific advisory board meetings.

12.1 Invited Talks

1. *Intelligent Agents and Semantic Technologies for Industry 4.0.*
Keynote, International ACM Conference on Web Intelligence (WI), Leipzig, Germany, 26.08.2017.
2. *Agents and Semantics for Future Internet Applications: Perspectives and Challenges.*
Keynote, 30th ACM Symposium on Applied Computing (SAC), Salamanca, Spain, 16.4.2015.
3. *Agents and Semantics for Human Decision-Making.*
Keynote, 6th International Conference on Agents and Artificial Intelligence (ICAART), Angers, France, 6-8 March 2014.
4. *The Service World Empowered By Agents and Semantics: Showcases of Intelligent Service Coordination.*
Keynote, 26th International Conference on Industrial Engineering and Applications of Intelligent Systems (IEA/AIE), Amsterdam, The Netherlands, 18.6.2013.
5. *The International S3 Contest Series: Benchmarking of Semantic Service Selection.*
Research Seminar Talk, Department for AI, University of Mannheim, Germany, 22.3.2013
6. *Model-Driven Agents and Semantic Technologies for the Digital Factory.*
Expert Talk, VDI Expertenforum des GMA Fachausschusses 5.15 Agentensysteme, Stuttgart, Germany, 8.10.2012 (with Dr. Fischer)
7. *Intelligent Service Coordination in the Future Internet.*
Invited Research Colloquium Talk, Department of Computer Science and Engineering, University of South Carolina, Columbia, USA, 11.1.2012
8. *Agents and Semantics for Intelligent Simulations in the 3D Internet.*
Invited Research Seminar Talk @ Center for Complex Software Systems and Services, Swinburne University, Melbourne, Australia, 30.4.2011

9. *Agents and Semantics for Intelligent Simulations in the 3D-Internet.*
Keynote, 5th International Conference on Semantic and Digital Media Technology (SAMT), Saarbrücken, Germany, 1.12.2010
10. *ISReal: Intelligent Simulation of Realities in the 3D Internet.*
Invited Research Colloquium Talk @ CSD, University of Koblenz-Landau, Germany, 26.8.2010
11. *ISReal: Semantics, Agents and Services for the Future 3D-Internet.*
Keynote, 8th International Workshop on Service-Oriented Computing: Agents, Semantics and Engineering (SOCASE), Toronto, Canada, 11.5.2010
12. *Agents and Semantics: Empowering the Internet of Services.*
KSRI Speaker Series, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, 13.1.2010
13. *Semantic Service Retrieval: Tools, Evaluation and Challenges.*
Keynote at European Conference on Web Services ECOWS – Semantic Web Services Challenge Workshop, Eindhoven, The Netherlands, 8.11.2009
14. *Agents and Semantics: Empowering the Internet of Services.*
Distinguished CETINIA Lecture Series, Universidad Rey Juan Carlos, Madrid, Spain, 24.11.2009
15. *Agent-Based Semantic Service Coordination.*
CS3 Seminar Talk, Center for Complex Software Systems and Services, Swinburne University, Melbourne, Australia, 24.4.2009
16. *Agent-Based Semantic Service Coordination.*
Habilitation Talk, University of the Saarland, Saarbruecken, Germany, 16.2.2009.
17. Fraunhofer Institute for Information and Data Processing (IITB), Symposium on Agent-Based Computing, Karlsruhe, June 19, 2008
18. 2nd German Conference on Multi-Agent System Technologies MATES 2004, Erfurt, Germany, September 29, 2004
19. University of Trento, Department of Information and Communication Technology Trento, Italy, Januar 13, 2003
20. University of Twente, Computer Science Department, Enschede, The Netherlands, April 15, 2003
21. International University of Bremen, Bremen, Germany, April 3, 2003

22. University of Osnabrück, Osnabrück, April 1, 2003
23. University of Trento, Department of Information and Communication Technology, Trento, Italy, July 12, 2002.
24. Danube University Krems, Austria, December 11, 2001
25. University of Aberdeen, Computer Science Department, Aberdeen, Scotland (UK), May 5, 2000
26. Free University of Berlin, Institut für Informatik, Berlin, Germany, October 11, 2001
27. **Keynote.** International Conference IMPACT-99, Seattle, USA, Nov 2, 1999
28. Invited Expert Talk. European Commission, ISPO Meeting. Brussels, Belgium, June 28, 1999
29. University of Karlsruhe, AIFB Karlsruhe, Germany, June 25, 1999
30. Deutsches Forschungszentrum für Künstliche Intelligenz, Saarbrücken, Germany, October 12, 1998
31. ETH Zürich, Database and Information Systems, Zürich, Switzerland, July 10, 1998
32. ETH Zürich, Computer Science, Zürich, Switzerland, July 9, 1998
33. **Keynote.** 1st German Joint Workshop on DAI, Databases and Information Retrieval (VDI) Chemnitz, Germany, April 17, 1998
34. Arizona State University, Electrical Engineering and Computer Science, Tempe/Phoenix AZ, USA, February 5, 1995
35. University of Cambridge, Institute for Astronomy and Astrophysics. Cambridge, UK, September 28, 1994
36. Technical University of Vienna, Department for Economy and Business. Vienna, Austria, April 27, 1994

12.2 Conference Talks

1. HyLEAR: Hybrid Deep Reinforcement Learning and Planning for Safe and Comfortable Automated Driving. Proc. 34th IEEE International Intelligent Vehicles Symposium (IV), Anchorage, Alaska (USA), 2023

2. HYLEAP: Hybrid Online POMDP Planning and Deep Reinforcement Learning for Safer Self-Driving Cars. 30th IEEE International Intelligent Vehicles Symposium (IV); Paris, France, 2019
3. Condition Monitoring Based on Statistical, Semantic and Hybrid Signal Processing. (with T. Schneider) Public Meeting of Scientific Advisory Board of the Association for Sensors and Measurement (AMA) e.V., Saarbrücken, Germany, 16.03.2016
4. ICM-Hydraulic: Semantics-Empowered Condition Monitoring of Hydraulic Machines. 11th ACM International Conference on Semantic Systems (SEMANTICS); Vienna, Austria, 16.9.2015.
5. ICM-Wind: Semantics-Empowered Fluid Condition Monitoring of Wind Turbines. 29th ACM Symposium on Applied Computing (SAC); Gyeongju, Korea, 26.3.2014.
6. ISReal: Open Platform for Semantic-Based Simulation in the 3D-Internet. 9th International Semantic Web Conference, Shanghai, China, 9.11.2010
7. iSeM: Approximated Reasoning for Adaptive Hybrid Selection of Semantic Services. 4th IEEE International Conference on Semantic Computing (ICSC), Pittsburgh, USA, 23.9.2010
8. OWLS-MX3: Adaptive Hybrid Semantic Matchmaker for OWL-S Services. 3rd International Workshop SMR2 der International Semantic Web Conference (ISWC), Washington DC, USA, 25.10.2009
9. Adaptive Hybrid Semantic Selection of SAWSDL Services. 6th European Semantic Web Conference (ESWC), Heraklion, Greece, 2.5.2009
10. Quantum Service Selection. International IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Sydney, Australia, 12.12..2008
11. Toward Quantum Matchmaker Agents. International IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Sydney, Australia, 10.12.2008
12. Model-Driven Semantic Web Service Matchmaking for Collaborative Business Processes. International IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Sydney, Australia, 10.12.2008

13. Model-driven Approach to the Integration of Multiagent Systems and Semantic Web Services.
International IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Sydney, Australia, 12.12.2008
14. Semantic Web Service Selection with SAWSDL-MX.
2nd International Workshop on Semantic Matchmaking and Resource Retrieval (SMR2) at ISWC, Karlsruhe, Germany, 27.10.2008
15. Model-Driven Semantic Web Service Matchmaking for Collaborative Business Processes.
2nd International Workshop on Semantic Matchmaking and Resource Retrieval (SMR2) at ISWC, Karlsruhe, Germany, 27.10.2008
16. Hybrid Semantic Web Service Retrieval: A Case Study with OWLS-MX.
2nd IEEE International Conference on Semantic Computing (ICSC), Santa Clara, USA, 5.8.2008
17. Hybrid Semantic Web Service Matchmaking with OWLS-MX: Benefits and Pitfalls.
6th International Semantic Web Conference (ISWC), Busan, Korea, 11.12.2007
18. Deployed Semantic Services for the Common User of the Web: A Reality Check.
2nd IEEE International Conference on Semantic Computing (ICSC), Santa Clara, USA, 5.8.2008
19. Semantic Web Services: A Preliminary Reality Check.
6th International Semantic Web Conference (ISWC), Busan, Korea, 11.12.2007
20. Fast Composition Planning of OWL-S Services and Application.
4th IEEE European Conference on Web Services, Zurich, Switzerland, 2006
21. WSMO-MX: A Logic Programming Based Hybrid Service Matchmaker.
4th IEEE European Conference on Web Services, Zurich, Switzerland, 2006
22. Fast Dynamic Re-Planning of Composite OWL-S Services.
2nd IEEE International Workshop on Service Composition, Hongkong, China, 2006
23. Evaluation of Service Composition Planning with OWLS-XPlan.
2nd IEEE International Workshop on Service Composition, Hongkong, China, 2006
24. RS2D: Fast Adaptive Search for Semantic Web Services in Unstructured P2P Networks.
5th International Semantic Web Conference, Athens, USA, 2006

25. Risk Driven Semantic P2P Service Retrieval.
6th IEEE International Conference on P2P Computing, Cambridge, UK, 6.9.2006
26. Hybrid Semantic Web Service Retrieval with OWLS-MX.
5th International Conference on Autonomous Agents and Multi-Agent Systems, Hakodate, Japan, 2006
27. Secure Web Service Composition.
1st International workshop on Privacy and Security of Agent-Based Collaborative Environments (PSACE), Hakodate, Japan, 2006
28. Semantic Web Service Composition Planning with OWLS-XPlan.
1st International AAI Fall Symposium on Agents and the Semantic Web, Arlington VA, USA, 2005
29. Coordination of Quantum Internet Agents.
4th International Conference on Autonomous Agents and Multiagent Systems, Utrecht, The Netherlands, 2005
30. Privacy-Preserving Coalition Formation Among Rational Service Agents.
3rd German Conference on Multi-Agent System Technologies, Koblenz, Germany, 2005
31. CASA: A Distributed Holonic Multiagent Architecture for Timber Production.
1st International Conference on Autonomous Agents and Multi-Agent Systems, Bologna, Italy, 2002
32. An agent-based mobile e-commerce service platform for forestry and agriculture.
2nd Asia-Pacific Conference on Intelligent Agent Technology, Maebashi, Japan, 2001.
33. Coalition Formation in a Power Transmission Planning Environment.
2nd International Conference on Practical Applications of Multi-Agent Systems, London, UK, 1997
34. A Polynomial Kernel-Oriented Coalition Algorithm for Rational Information Agents.
2nd International Conference on Multi-Agent Systems, Kyoto, Japan, 1996
35. Cooperative Recognition of Interdatabase Dependencies.
International Workshop on Description Logics, Rome, Italy, 1995
36. FCSI: Towards context-based recognition of interdatabase dependencies.
18th International ETCE, Symposium on Knowledge-based Systems in Engineering Applications, Houston, USA, 1995

37. Coalition-based cooperation between intelligent agents for a contextual recognition of interdatabase dependencies.
1st International Conference on Multi-Agent Systems, San Francisco, USA, 1995
38. Using a hybrid neural system for astronomical classification tasks.
OAGM/DAGM International Joint Symposium on Pattern Recognition, Vienna, Austria, 1994
39. HNS: a hybrid neural system and its use for the classification of stars.
IEEE International Joint Conference on Neural Networks, Nagoya, Japan, 1993

13. Personal Referees

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